

*Hooper M.H.*  
*28<sup>th</sup> Nov. 1874*  
MEMOIR

OF THE

CODUGU SURVEY.

COMMONLY WRITTEN

KOORG.

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PART I.

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BY

LIEUTENANT CONNOR,  
" SURVEYOR.

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The following Memoir it is hoped, will serve to illustrate in some measure, the leading particulars connected with the Map of Codugu and may, perhaps, be found to answer most of the questions that would suggest themselves, as to the situation, physical construction, surface, extent &c. of this little principality. In the Miscellaneous observations that are annexed, an attempt is made to convey some idea of its Government, population, resources, &c. The remarks made on those subjects may it is probable, be considered as unequal to the interest they excite, or the comparative importance attached to them, and the meagre notices given, would doubtless justify the objection, but, it is hoped, not countenance the conclusion, that such was attributable to carelessness or indifference; however ready I may be to acknowledge the imperfect, perhaps trifling nature of the information conveyed, I must deprecate the suspicion of its originating from such a cause. Indeed if apologies were necessary for the loose, and unconnected sketch I have ventured to give, there are not wanting circumstances, that might be offered in extenuation.

The Survey of Codugu having in every instance been conducted after the manner observed with regard to that of Soanda, no particular account of the method pursued in carrying it on will now be required.

The duties of the establishment, with reference to the above-mentioned district being completed on the 31st October 1815, it was placed under my directions and ordered to proceed to Codugu for the purpose of surveying that Principality. Some delay necessarily occurred in arranging for this undertaking; the Survey however, was finally completed on the 31st of October 1817, thus rendering the whole time consumed in its execution precisely two years, a period it is hoped that will not be deemed as having been protracted to a greater length than was consistent with due accuracy, and what was absolutely necessary, from the difficult nature of the country.

# MEMOIR

## OF THE

### CODUGU SURVEY.

Situation. In speaking of the situation, aspect and physical construction of this territory, it may be desirable to describe it under two heads, first that of Codugu proper embracing in a general sense the whole of the country above the ghauts, and secondly, that consisting of the districts lying beneath this ridge, those combined portions forming the principality. Codugu proper is situated on the summit, though occupying but a small portion of that range of mountains which formed the boundary of ancient Kerala.\* The western ghauts are here elevated about 5000 feet above the level of the sea, and covered everywhere with almost impervious woods, present to the westward a steep and precipitous surface, towards the east, however, they have a gentler declivity; Muddukayray the capital of this mountainous principality, lies  $63\frac{2}{3}$  miles almost due west of Seringapatam (it being only 51" north of that place.) It is situated in the midst of the hills and is in latitude  $12^{\circ} 26' 20''$ , longitude  $4^{\circ} 30' 46''$ . The possessions of this state above the ghauts, stretch on the north and west, to the champaign country of Mysore, and on the south to the confines of the hilly district of Wynaad; that portion of the country lying below the ghauts, is of confined breadth, but extends at its most western point, to within a few miles of the sea, embracing within its limits a small portion of Malliallum and Tullava.† The extreme limits of the territory lie between  $11^{\circ} 55' 23''$  and  $12^{\circ} 49'$ .

\* Kerala the ancient name of the Western tract which comprises the modern countries of Malabar, Travancore and Canara. Konken is the northern extension of this low country.

† The Purswunnie river falling into the sea at Chandergerry formed the ancient boundary of those two provinces now known under the modern names of Malabar and Canara, the division between which is the Peyunguddy river whose stream separates the two Collectories.



33" north latitude; and  $4^{\circ} 8' 23''$  and  $5^{\circ} 14' 10''$  longitude west from Madras observatory.

Codugu is bounded on the north, partly by the talook of Buntwalla in Canara, and is separated from it by the Nettrawutti and Coomardarry rivers which for the extent of 34 miles constitute its frontier. On the eastern part of this northern boundary by the district of Bullum or Munzeerabad and is there partly defined by the Hemawutty river. On the east by the talooks of Konoer, Arculgode and Bettadipoor of Mysore. The Cauvery for a considerable distance (near 20 miles) marking the division. On the S. E. by the Talook of Heggadevencotta; and on the south by the district of Wynaad, the line of demarcation passing over the summit of the Brumagerray hills. On the west it is bounded partly by the district of Tellicherry in the Province of North Malabar—the range of western ghauts separating the two countries for the space of nearly 65 miles, quitting them however, the line of division takes a direction towards the sea, when having approached the town of Coombla, it recedes for a short distance, after which turning towards the north it forms a junction with the Nettrawutte river, at the north-western extremity of the country being bounded for the last 80 miles by the talook of Beakull belonging to North Canara.

A momentary glance at the map of Codugu will shew the great irregularity of its figure; and the comparative smallness of its contents in proportion to the extent of its boundary it is encompassed on the west, south, and part of the north, by the British possessions which extend along its limits for  $229\frac{1}{2}$  miles (13 of which are occupied by Wynaad and the remainder by Canara and Mulliallum). The territory of Mysore runs along the eastern frontier for 139 miles thus making the whole perimeter equal to  $368\frac{1}{2}$  miles, an extent of boundary greatly disproportionate to its area. The upper country with the exception of Yailsowra talook is generally defined by natural limits. The ghauts on the south west, and the stupendous ridge of the Brumagerray mountains on the south, present the most distinct boundaries; quitting this chain, the eastern frontier is marked by an immense forest, except where the Cauvery forms the line of separation; approaching the northward, this woody belt gives place to the open

slopes of Yailsowra, whose limits are defined by a factitious boundary.\*

The Districts below the ghauts divided by so great a barrier from the country on their summit, naturally form a portion of Malabar and Canara which they nearly intersect, and to which indeed they formerly belonged; it will be seen that their limits with the exception of the northern line are quite artificial, the boundary being in scarcely any place defined by objects forming a natural barrier.†

Codugu is of a very irregular outline; could its form be reducible to any determinate figure, it would be to that of a triangle having its apex at the extreme western point. Its length from north to south is 61 miles and from east to west  $63\frac{1}{2}$  miles—those dimensions however continue but for a very short space.

The original possessions of this principality were confined in all probability in the first instance, within the precincts of the most hilly parts, the circumstances which led to an enlargement of those contracted limits, will be found detailed in the slight historical sketch that is given. It may however, be observed that Sooleeya was acquired by purchase; Umr was the gift of the Bednore Rajah to one of the Codugu Chiefs; Punjab and Bullaree were acquired from Hyder partly at the purchase of peace with those mountaineers, and partly as the compromise for certain violated engagements, and Yailsowra was obtained by conquest. Its extent was comprised within those limits till the year 1804 when the British Government, with its usual liberality, in consideration of the singular fidelity and eminent services of the late chief, ceded to him the talook of Poottoor, now forming one of the most valuable portions of the country. The present extent of this principality is doubtless greater than it ever could have been at any previous period; it comprises an area of

\* The boundary is known with the greatest exactness and preserved with the utmost solicitude, a small path runs along it for nearly the whole circuit. Guards are placed at short intervals for the particular purpose of preventing intrusion.

† *Vide* detailed account of the boundary in the Appendix.

2165½ square miles, of this space the lower districts occupy 580-2-2½, those above the ghauts 1585-1-5½. Calculating however, from the immediate summits of the ghauts the division will be thus, above, 1266-1-14½: below, 899-1-9. The accompanying table will be found to exhibit every information with regard to the area occupied by the interior divisions of the country.

TABLE SHEWING the area of Codugu together with that of its interior Divisions

		Miles	Parts of a mile				Miles	Parts of a Mile					
			¼	64ths				¼	64ths				
Yailsowra Talook	Coadley Hobely Naad ..	8	2	7½									
	Coodooloor do	13	3	6									
	Hoolacode do	5	2	10½									
	Bombulloor do	3	1	12									
	Bulla do	13	1	9½									
	Connagaul do	3	1	7½									
	Frangegoad do	5	0	3½									
	Doadhully Gowdhully do	7	3	8½									
	Nirrootoda do	5	1	2½									
	Menesedda do	5	1	9½									
	Mooloor do	7	2	4½									
	Gunagoor do	12	1	4½									
	Nunjarajputtun Naad	55	1	15½									
	Yeddoor do	64	1	2									
The twenty-three divisions or Naads which may particularly be denominated Codugu proper	Gudday do	48	2	12½									
	Oolagoclee Moodagareede	32	2	12									
	Hoaroor Nooruckkul do	39	2	4½									
	Soorlabay Moothor do	65	0	11½									
	Hahlayray Buddu- gayray do	29	0	3½									
	Muddukayray Horoum- ullay do	20	0	3½									
	Pudy Naku Naad	142	1	1									
	Kuddietthu do	61	1	10½									
	Hoodoogayray Meon- dupum do	35	2	½									
	Bayngu Naad	42	0	13½									
	Byru do	41	1	11½									
	Yedday do	10	1	9½									
	Hirroda do	8	0	2									
	Baithoalley do	32	1	3½									
	Ammuthu Naad do	77	0	13									
	Bayppu do	41	2	2½									
	Kodyengayray do	39	1	6½									
	Kuggoadloo do	40	0	4½									
	Bettieth do	39	0	5									
	Kaunthamoor do	14	1	12½									
	Thawa do	139	3	4									
					Total of Yailsowra Talook	91	3	5½					
					Total of Codugu proper	1189	0	7					

NOTE.—The insulated portion of the Company's territories coming within the Codugu limits is of course not included in the area of the Principality, this portion amounts to 8-3-15. This added to what has already been stated as the extent of Codugu will give 2174-3-6½ square miles as the area of territory circumscribed by the Codugu boundary.



		Miles.	PARTS OF A MILE.			Miles.	PARTS OF A MILE.			Miles.	PARTS OF A MILE.									
			1/4	64th			1/4	64th			1/4	64th								
Kiggutt Naad Talook.	Unjigayray Naad	23	3	7 3/4	Total of Kiggutt Naad Talook	313	1	9	Total area of Codugu above the Ghauts.	1535	1	5 1/2								
	Aurykayray do	47	0	12 1/2																
	Tawullugayray do	54	2	7 1/2																
	Koorchy Toru do	55	3	9																
	Kirrigoor do	12	1	0 3/4																
	Huthacuttu do	53	3	4 1/2																
	Murray do	65	2	15 1/2																
Umr.	Kolumuggurra Magunnie	43	3	11 1/2	Total of the Sooleeay Talook. 270-3-16 1/2	106	1	5 3/4					Total area of the lower Districts of Codugu.	580	2	2 1/2				
	Kunderpaudee do	33	2	12																
	Chokaudee do	10	1	9 1/2																
	Moghurrudhu do	4	3	0																
	Yainakul Dawarholly do	13	2	5																
Sooleeay.	Bull Naad Magunnie	21	0	3	Total of Sooleeay.	170	2	9 1/2									Total area of the lower Districts of Codugu.	580	2	2 1/2
	Puduroanoor do	23	1	9																
	Moodoonoor do	18	3	6 1/2																
	Iddurrukah do	29	3	3 1/2																
	Arranthode do	33	3	10 1/2																
	Uddoor do	38	2	9																
Punjee Magunnie.	Sicily Magunnie	2	1	1 1/2	Total of Total of Punjee.	48	3	10	Total area of the lower Districts of Codugu.	580	2	2 1/2								
	Amrakasupaudy do	11	0	8 1/2																
	Kuddubudda do	6	2	6 1/2																
	Buudady do	2	3	3 1/2																
	Old Punjee do	22	0	1 1/2																
	Part of Soobramunni do	4	0	3 1/2																
Nettinukay Magunnie.	Saivurulluwutta do	47	2	13 1/2	Total of Nettinukay.	90	2	5 1/2					Total area of the lower Districts of Codugu.	580	2	2 1/2				
	Nettinukay do	51	3	8 1/2																
Pootoor Magunnie.	Bari Bellloor Magunnie	12	2	3 1/2	Total of Pootoor.	71	0	9 1/2									Total area of the lower Districts of Codugu.	580	2	2 1/2
	Pootoor do	53	0	5																
	Neireymuggurra do	5	2	1																
Bullaree Magunnie.	Old Bullaree Magunnie	51	3	1 1/2	Total of Bullaree.	83	3	9 1/2	Total area of the lower Districts of Codugu.	580	2	2 1/2								
	Part of Old Puttoor do	20	1	3 1/2																
	Do Soobramunni do	11	3	5																

## Capacity.

With so large a portion overgrown with forests extremely hilly, and a surface having everywhere such inequalities of level, as in no place to present any thing resembling a plain, the capabilities of this principality as it now offers itself to observation, would be concluded as more circumscribed than even its narrow limits would lead it to be supposed. The natural capacity of the country however is very great, and only requires a more enlarged population to call it forth; forests of a gigantic growth and everywhere a vigorous and florid vegetation, indicate fully its productive powers, and the general figure of the hills, covered with a rich and deep earth, render them almost everywhere capable of being cultivated; they have room and soil sufficient for maturing vegetable productions, and promise fully to repay the labor and expense of husbandry, while its fertile valleys yield in the same extent of surface in the proportion of more than double the quantity of the neighbouring districts. Water, so necessary for all the purposes of agriculture, is obtained in abundance, the nature of the country ensuring it a profuse supply, such a character is however, only immediately applicable to Codugu proper; Yailsohra and Nunjarajputtun have all the aridity of the open plains of Mysore and something of their comparative sterility.

In the districts below the ghauts, the soil of the cultivated lands is more superficial and less productive, and of that of the upper grounds is almost barren, a large portion consisting of all the indurated stone, common throughout the western coast; where more favorable they are covered by but a thin stratum of clay; the valleys in part of these districts however are tolerably fertile, and throughout Sooleeay and Punjee are adapted to the cultivation of the Areca tree; steep, narrow, sheltered alike from the extremes of heat and cold, and always retaining a considerable moisture, they possess all the necessities requisite for the success of those valuable plantations.

Estimate of the hilly and plain cultivated and uncultivated lands.

A reference to the accompanying table will convey a tolerable correct idea of the quantity of land under cultivation in each particular district.



TABLE shewing generally the proportion of cultivated lands.

			Culti- vated.		Unculti- vated.		REMARKS.
			Square miles.	Parts of a mile	Square miles.	Parts of a mile.	
				16ths		16ths	
Codugu proper.	Yailsowra Talook		14	6 $\frac{3}{4}$			This table has been obtained by the measurement on the plan of the space represented cultivated and may be considered as near the truth as such a mode is capable of.
	Nunjarajputtun	Naad.	1	4			
	Yeddoor	do.	7	7 $\frac{3}{4}$			
	Gudday	do.	3	14 $\frac{3}{4}$			
	Oolagoolee Moodagayray	do.	2	8 $\frac{3}{4}$			
	Hoaroor Nooruckkul	do.	2	14 $\frac{3}{4}$			
	Soorlaby Moothoo	do.	1	4 $\frac{3}{4}$			
	Hahlayray Buddugayray	do.	1	10			
	Muddukayray Horomullay	do.	1	10			
	Pandy Naku	do.	8	4 $\frac{1}{4}$	0	6 $\frac{1}{4}$	A reference to the table exhibiting the area of the interior divisions will enable the portion cultivated in each immediately to be ascertained. The total as here given shews the country under cultivation to be in proportion of about one 11-56-100ths of the whole country.
	Kuddieth	do.	5	5 $\frac{1}{4}$	1	5	
	Hoodoogayray Moondupum	do.	3	2 $\frac{3}{4}$			
	Bayngu Naad	do.	4	5			
	Byru	do.	3	0 $\frac{3}{4}$	0	14 $\frac{3}{4}$	
	Yedday	do.	2	11 $\frac{3}{4}$	0	0	
	Hirrooa	do.	2	1 $\frac{1}{4}$	0	2 $\frac{3}{4}$	
	Baithoolley	do.	1	8 $\frac{1}{2}$	0	11 $\frac{3}{4}$	
	Ammuttha	do.	7	11	2	14 $\frac{1}{4}$	
	Bayppu	do.	6	9 $\frac{3}{4}$	1	8 $\frac{3}{4}$	
	Hooyeangayray	do.	5	13 $\frac{1}{4}$			
	Keygoadloo	do.	3	6			
	Bettieth	do.	6	8 $\frac{1}{2}$	4	9 $\frac{1}{2}$	
	Kaunthamoor.	do.	2	8 $\frac{1}{4}$			
	Thawa	do.	5	2 $\frac{3}{4}$			
	Total.....		90	13	12	9	
	Kiggutt Naad Talook		15	6 $\frac{1}{2}$	22	11 $\frac{1}{4}$	
	Umr		7	5 $\frac{1}{4}$			
	* Sooleeay		14	1 $\frac{1}{4}$			
	Total of Umr Sooleeay.....		21	6 $\frac{3}{4}$			
	Punjee		6	4 $\frac{1}{2}$			
	Bullaree		13	7 $\frac{1}{2}$			
	Poottoor		11	0 $\frac{1}{2}$			
	Nettinukay		14	13			
	Sum Total.....		187	10 $\frac{1}{2}$	35	4 $\frac{1}{2}$	

\* This includes whatever portion may be under Areca plantation.

It will be seen from the preceeding that, on a general average, not more than one 11 $\frac{1}{2}$  of the whole area is rendered subservient to the wants of man; this very limited proportion is in a great measure accounted for by the rugged nature of the country, the space capable of cultivation could however be still greatly enlarged, as a very great share of that extent, now covered with forest in point of level and soil is calculated for it, and at the lowest calculation  $\frac{1}{6}$  of the whole is fit for the plough, this of course will be understood as referring to the cultivation of dry grains, that of rice is capable of being increased, but, in a much smaller degree—the extent of waste land is only great in the Kiggutt Naad talook, and but only a portion of it is capable of cultivation.\*

It has already been said that, throughout the whole country there is no space, however small, sufficiently level to be characterized as a plain. Indeed Codugu is one series of hills, varying only in point of elevation, it will not be necessary to particularize the area of each range; the fall of the ghauts alone may deserve a specific mention, calculating from their summits till they melt into the lower hills of the districts situated at their foot, the declivity of that portion of the ghauts coming within this territory, occupies a space of 2613 3-5th square miles, the whole of which is a steep preceptuous descent clothed with a majestic forest.

Like the hills, wood is too much the character of this country to require a statement of the area that may be particularly occupied by it, indeed there are but few places that can be called at all open. Yailsowra is the only exception.

Reference to the surrounding countries. Encompassed by the possessions of the British and those of Mysore, the countries surrounding Codugu are too well known, to require here anything but a brief mention as to the reference and connection which they may bear to it. Codugu broken by hills, covered with woods, having but indifferent roads, and no large towns, holds out but few temptations to an extensive intercourse with its neighbours, the

\* Much of the space represented as waste may at one time have been cultivated; but from long disuse, has degenerated into swamps which cannot be rendered arable.



superior advantages it enjoys for the production of rice renders it however in some measure the granary of the countries in its vicinity. The fertility of the soil, and the habits of the people enable them fully to administer to the wants of their neighbours in this particular.

The geographic position of this principality renders it an object of importance in a military point of view, whether considered as bordering on the confines of Mysore and in the immediate vicinity of the capital of that state, or regarded with reference to that part of Malabar and Canara, which it approaches in point of locality.

#### Aspect.

The aspect of Codugu presents an entire forest, the long and narrow cultivated valleys enclaved within it, serves but to render those vast woods more striking; the whole of the eastern boundary presents a remarkable geographic line of demarcation, exhibiting an almost uninterrupted and impervious wood from the Brumagerry hills, till to reaching the Cauvery; this space is wholly uninhabited: advancing westwards the woods decrease in density as the country improves in cultivation, and becomes gradually thinner till reaching the western ghauts, the immediate summits of which, partially bare of wood, are clothed with a luxuriant herbage. South from Veerajenderpett, those jungles become less impenetrable, and the whole of Kiggutt Naad (with the exception of the eastern boundary) including the Brumagerry Hills is comparatively open, at least when contrasted with the deep forests of the contiguous district. Approaching towards the north, the thick umbrageous woods of the central parts give way to the date, sandal, and other trees, and shrubs of a more meagre soil, leaving Yailsowra an almost perfectly champaign tract.

But a small portion of the summits of the ghauts is free from jungle; their western face presents a continued forest of immense stature partially subsiding at some distance from their base. Wood however is the unvaried feature of these regions. The lower districts of Umr and Sooleeay are overgrown with it, quitting them however and advancing towards the sea it gradually decreases. Bullaree and Pungee being generally clad with a more thin and scanty garb, still further, approaching westward it entirely gives way to the cultivated valleys and barren rocky slopes of the greater part of Poottoor.

#### Mountains.

The western ghauts, running nearly from north to south, divides this Territory into two unequal portions differing in many essential particulars; the general configuration of both however is abrupt and broken, the most prominent ridge of mountains, as to height and extent, is that forming the summits of the ghauts. This chain is unequal in its elevation, and somewhat irregular in its direction, having a large curvature immediately at the head of the Thorikahna ghaut, the ridge however experiences but little interruption in the course of 50 miles, running from Subramuhni on the north to the Brumagerry hills on the south; towards the west it falls with great steepness, the descent from the summit to the foot being generally from  $2\frac{1}{2}$  to 3 miles, the first part of which is particularly rapid; to the east this chain has in many places a precipitous descent, and is generally steep, the declivity extending however, but for a comparatively short distance, its length bearing no comparison with that of the western face; innumerable ridges branch off from this range, but all diminutive in proportion to the parent from which they spring, they decrease in height as they recede from this ridge, but have everywhere narrow summits, and steep declivities. Todiandamael, situated  $13\frac{1}{2}$  miles almost directly west of the Pettah, detaches itself in a picturesque manner from this colossal range, and raises its pointed summit above all others; this beautiful hill the most elevated in this part of the ghauts, can only be viewed with effect at some distance beneath its base, its measurement is 5682 feet above the level of the sea, Soobramuhni part of the same ridge, and situated on the northern confines of Codugu, and partly separating it from Mysore, has nearly similar claims to pre-eminence, it being only 99 feet lower; the height of these two points will convey some idea of the elevation of this chain, which on an average is in scarcely any place more than from 4 to 800 feet below them.

The Brumagerry range of hills, running in a direction from east to west, and situated on the southern limits, constituting a formidable natural barrier between Codugu and Wynaad is the next in importance; its general height may be about 4500 feet above the level of the sea, it consists of a table land from the elevated plain of which detached summits rise. Davashi betta is the highest of those, being only however from 100 to 150 feet more elevated

than the other peaks. The northern face of this range has a steeper ascent and of greater length than that looking towards the southward, giving to Wynaad the appearance of having a higher general level than Codugu. Davashi betta is a place of pious celebrity and has been the residence of Suneeashees for time immemorial; numerous devotees resort to the small spring at its foot from which issues the Letchmun Tirut, and a journey to Davashi betta is supposed to add efficacy to this pilgrimage.

Of the minor ridges, that supporting the table land upon which Muddukayray lies is the most conspicuous. Noorkull naad rising on the south eastern extremity of this chain is the highest point of it, those ranges branching off from the stupendous mountain of Soobramuhni are next in consideration, running from that hill they pass a long northern boundary for a considerable distance and are high and steep.

Numberless insulated hills giving way to steep slopes chequer the surface of the country; of those, Cotay Bitta is the most remarkable, this immense mountain lies 9 miles nearly north of Muddukayray its elevation is not greatly below that of the range of ghauts, and its base occupies an immense extent of country, the summit of this hill is comparatively flat forming a kind of waving table land, its sides alone are clothed with forest, and innumerable cultivated valleys occupy the recesses in them; almost immediately on the top of Cotay Betta there is a fine reservoir of water which, in every season retains a constant supply, close to it is a rude temple dedicated to some of the numerous deities that share the homage of those mountains. Maullimby Peak lying on the confines of Yailsowra and Yeddooa naad is the next in point of elevation it is however more remarkable for the beauty of its figure which represents an exact cone, than for its height. Other detached hills and ridges, tho' numerous are not deserving of any particular notice. The hill close to Veerajenderpett and Moogoatgayray betta are the most remarkable; they are both steep, but low, the latter presents a precipitous rocky acclivity towards the west; there is a small Pagoda on its top; some few detached ranges are situated along the eastern boundary not however remarkable for either elevation, or extent; amongst them Seedaswar and Mawcull are the

most prominent, the former guards the pass, or rather woody defile that gives entrance to Codugu, and attracts attention, as being for some years the place of retreat of the adventurous chiefs of those wild regions. A Pagoda dedicated to Siva occupies the top of this hill

Of the mountains below the ghauts, the immense ridges connected with, and branching from them, form the principal ones. In the lower districts those chains descend with great steepness leaving a large space along the foot of the ghauts, one unvaried extent of precipitous hills, and impenetrable woods. The range lying on the southern boundary stretching from Tulla Cauvery to Puruthuddy betta is the most remarkable, presenting an uninterrupted ridge for the whole distance, having numerous minor branches running from it; of the few detached hills Buntamale, Kunneeyar Goota and Bulla naad are the most conspicuous, the former is the highest; they are however all comparatively low but very steep.

General observations as to the superficies and configuration.

From the above enumeration of the most prominent mountains, the general character of the superficies, and configuration of the country will be inferred; covered with chains of hills of equally various elevation as direction, its aspect is greatly diversified; but its general, and almost invariable features are ruggedness. The whole of the western portion of the upper country lying in the vicinity of the range of ghauts is abrupt, and mountainous: quitting this Alpine tract, and approaching the eastward, the various ramifications of those hills, loose themselves in the steep low ridges which insensibly subside in the undulating slopes of the most eastern parts, the aspect of Yailsowra is of this waving nature, and though not immediately flat, has a much larger portion of plain than any other part of the country. Descending the ghauts, whose mountainous wall gives the upper country the appearance of an immense terrace; we find the superficies of the lower districts equally marked by those rugged asperities, that distinguish the more elevated tract; quitting those lofty ridges that descend from the range of ghauts, the higher acclivities give way to eminences of lesser magnitude which gradually sink into steep but low slopes infinitely varied as to shape, and extent, those again are lost in the gentle un-



dulating rocky table of which the more western parts are formed.

The rough and uneven surface of the country is everywhere diversified by narrow and steep valleys, which are occupied by the arable lands, this situation being the only one calculated for the cultivation of rice. The breadth of those valleys, varies in proportion to the steepness of the country, they rarely however exceed half a mile, and in the more hilly parts, frequently are not more than a fourth of that distance; winding along the bases of the eminences that border them, they run for considerable distances, occupying the narrow cliffs of all the high grounds affording sufficient water for the purposes of irrigation; the narrow valleys are cut away to increase the extent, and if favorable are formed into terraces for the purpose of further enlarging the space capable of being cultivated.

The general principle upon which the country of Codugu is divided, differs but in few particulars, some of the terms excepted, from the other mountainous countries occupying the summits of the western ghauts, and those situated below this range of hills. The talook of Yailsowra and the small district of Nunjarajputtun form an exception to this observation, resembling both in superficies and productions the open country of Mysore, their divisions are arranged after the manner common to those of that country.

The accompanying map, exhibits every particular regarding the internal divisions of Codugu, it will not here therefore be requisite to state their relative position with regard to each other, as a slight inspection of the sketch here offered, will convey every desirable information on this subject, and the table given in page 5 will be found to solve every question, that could arise as to their superficial extent; a few brief observations however may perhaps illustrate both.

Codugu, was divided into five talooks under the late Rajah. Yailsowra on the north, Kiggutt naad on the south, the centre space which may more particularly be called Codugu proper, being under the immediate control of the Dewan Cutcherrie at Muddukayray. The districts below the ghauts are partitioned into two talooks that of Sooleeay and Poottoor.

Those larger divisions formed for the purpose of civil administration have at different periods been modified or altered, as caprice or convenience may have dictated, the smaller component parts which form them, are the ancient partitions of the country.

A talook consists of any indefinite number of naads, this being the next smallest territorial division, it is again subdivided into gramas, and those into magunies, \* which are still further separated into wurgas, this last name denoting the fields or estate of the husbandman or occupant.

The term naad pronounced sometimes *narrh*, is general throughout the more southern parts of this range of ghauts, and much used in Malabar, but scarcely known towards the northward of Codugu; this denomination means district generally, but sometimes country (as Wynaad &c.) the divisions of the talooks of the lower country are arranged exactly after a similar manner with those just mentioned, their denominations however having some difference, the term magunnie being substituted for that of naad, which it resembles in every other particular.

The lesser divisions of Yailsowra are denominated hobelys, this is similar but generally smaller than the magunnie and naad;

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\* It will be perceived that the two smaller divisions here mentioned, are not inserted on the map, or registered in the list of villages, anxious to obtain those particulars, frequent applications were made for them but without success, the native authorities evincing the most unaccountable solicitude to conceal them. Indeed, however strange it may appear, it required the utmost exertion to obtain the list now given. On the first commencement of the work every attempt was made to mislead the Surveyors in this particular and nothing but the most distinct assurances that such a proceeding must necessarily put an immediate stop to the undertaking could produce an alteration in the conduct that had been observed. After a considerable period of delay and prevarication, a register of the whole of the villages and other divisions was at length procured from the Cutcherrie, the omission of the smaller names being pointed out, was met by the assurance (so entirely unfounded, that those using it must have been quite indifferent as to the expectation of belief) that the list which had been furnished contained every particular that could be given, and such precautions were taken, that it was impossible to learn those names which were withheld, as the inhabitants had particular instructions not to inform the Surveyors.

Nunjarajputtun has no intermediate subdivision, it consisting merely of the naad and its gramas.

The divisions of Poottoor it may be perceived, are rather intricate, this arises from the circumstance of their having undergone some alterations subsequent to the transfer,\* the small magunnies noted as forming the four large ones which compose the talook are some of the ancient divisions which though now recognized by the people, are not used in the administration of the country.

The magunnie of Soobramuhni exists in a very detached shape this originates in the villages forming it, having at one period being held in Inam by the celebrated Pagoda of that name.

In the districts below the ghauts, it will be observed that an insulated portion of the Company's territory is included within the Codugu boundary, this consists of some estates which though within the limits of the country transferred by the Company in 1804, were specially stated as forming no part of that which had been ceded; particular reasons doubtless must have influenced this arrangement, no information however has been acquired, as to the exact motives that caused the disposition thus made; there are a few other places, sometimes only fields, coming within the Codugu limits; no inconvenience however has been found to result from this intermixture of country.

The boundaries of the interior subdivisions are mostly arbitrary and factitious, in many instances however it will be seen that they occasionally follow the course of the large streams and ridges, but as a general remark, they have but little reference to natural limits.

No system of territorial partition could be simpler or more complete, it presenting a regular series of subordination requiring nothing to perfect it, there is however a great irregularity in the areas of the different divisions, but we are not in possession of the motives that guided the partition of the country into those several parts, it is diffi-

\* The portion of country ceded by the British Government to the Codugu Prince in 1804 was severed from the Canara collectorate.

cult to say, nor perhaps is it materially necessary to know, what cause may be assigned for this disproportion in the superficial extent of the various divisions.

Principal places, cus-  
bas, market towns,  
&c.

In Codugu proper there can scarcely be said to be any large towns, the population is extremely scattered, the inhabitants living on the borders of the cultivated valleys, and universally in insulated dwellings distant from each other in proportion as the situation of their fields will conveniently admit of; and separated on an average little less than half or quarter of a mile asunder, the larger divisions have not in most instances a principal village, each naad however in every case has a cutcherrie the residence of the Shanaboge (or native Reveue Officer) where the business of it is transacted.

Coadlypett.

The chief places in Yailsowra are Coadlypett and Sunnywarsuntay, the former of those is the capital, it is situated in the northern part, and in the hobly to which it gives its name, in this town is a cutcherrie, the residence of the Chief Officers of the district, it contains about 60 houses, and is a market place of some eminence, the fair held here on every Sunday being numerously attended; it is also the seat of some little trade, the rice of the interior being here exchanged for the dry grains and cloths of Mysore &c., this traffic is principally in the hands of a few Sivabuctar merchants.

Sunnywarsuntay.

Sunnywarsuntay as the name implies, is the place where Saturday's market is held, it is in Bulla hobely, and situated immediately in the large road which crosses this narrow neck of land, it consists of but a few huts and a cutcherrie for the purpose of collecting the sayer duties, which from the local circumstances of the road are very considerable; the market is a place of great resort, its central situation rendering it particularly well adapted for the purposes of traffic.

Ramapoora or Ra-  
masamy cunnawey.

The next place of consideration is Ramapoora or as its more generally called Ramasamy cunnawey, this is situated on the bank of the Cauvery in the southern part of Nunjarajputtun naad—there is no



town here, it consisting of a few wretched scattered huts not deserving that appellation; this is the station of the cutcherie of the District, and is a market place of considerable importance, the fair occurs on a Wednesday, and generally attracts a large concourse of people; bordering the confines of both countries, and on a principal road it engrosses all the trade of the adjoining parts, this being the principal place from which the rice of the neighbouring districts is exported.

**Soamwarpett.** Soamwarpett is the next town that claims attention; a market is held here on Monday, it is well supplied and numerously frequented, the place itself however though dignified by the appellation of petta is of but little consequence consisting of only about 30 indifferent houses.

**Muddukayray.** Muddukayray the capital of this mountainous principality, is situated in the midst of the hills and somewhat in a central position, it seems to have been chosen from its comparative difficulty of access; and this feeling appears common to most Indian Highland Chiefs, as they are found invariably to fix on (as if to render security more secure) the deepest recesses of their Alpine retreats for a place of residence; Muddukayray we are informed was fixed on as the seat of Government by Doda Veerappa one of the early princes of Codugu; lying on the top of an elevated table it is nearly the highest inhabited land in the principality; its local position is extremely picturesque and beautiful, surrounded by an amphitheatre of hills; it is situated in the small basin at their foot, and sheltered in some measure by them from the violence of the winds, to which its elevated site would expose it.

The town of Muddukayray is small and insignificant, it consists of a petta lying a short distance east of the fort, running in a long, and rather straggling line, which scarcely allows it the merit of regularity, some scattered houses, lie immediately close to the fort, the whole however, in both places, not amounting to more than 300; most of them of a wretched appearance, and few with the exterior of comfort, or cleanliness; The seat of no trade, or manufacture it owes its importance entirely to being the residence of the chief, and indeed, is principally inhabited by those belonging

immediately to his personal establishment. A market is held here every Friday, it is most abundantly supplied, and attracts a very large concourse of people, most of whom however belong to the country.

**Veerajenderpett.** Veerajenderpett is the largest, and it may be said the only town in Codugu, it is situated in the southern parts 16 miles S. E. of Muddukayray, and immediately on the communication between the Western coast and Mysore; though a place of the greatest consequence in the country, it is of recent birth having been founded by the late Rajah about 25 years since.\* Its first population consisted of those, whom he had in his predatory excursions swept away from Mysore; but principally of the inhabitants of Periapattam, who fled here for protection when that place was destroyed by the Sultan to prevent its falling into the hands of the British.

Veerajenderpett is a large straggling town containing about 500 houses, upwards of 200 of which belong to christians; they are however, almost all of a mean appearance, and although the whole permanent trade of the country is centered here, there are but few symptoms of either affluence, or growing prosperity: having no manufactures, its chief support must be in traffic, for this, its situation is particularly advantageous, fitting it in a great measure for being, a staple between Mysore and the Western coast, at present however it has not attained this desirable prerogative; it is notwithstanding a mart of some consequence, and the fair which takes place here, every Friday, is the largest of the periodical markets held in the country; all the produce of the southern parts is brought here for sale, also that of the districts in its vicinity, it being the principal place from which they are exported, the neighbouring inhabitants of Mysore resort here in great number. Rice is the chief article which they take away with them.

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\* It was established by Veerajender in commemoration of a meeting that took place between General Abercromby and himself during the war with Tippoo some time in the year 1792

Bágamundala. Bágamundala is the principal place of Thawu-naad, it is situated at the junction of the Cauvery and Kunnikay streams but owes its celebrity more to the Pagoda there than its size or trade, it consisting only of a few scattered houses.

Kiggutt naad. There is no town of any description in Kiggutt naad through which even the smaller villages are but thinly scattered. The cutcherie which is considered the chief place is in Ungigayray naad; the principal authorities of the district live at it.

Palaces. Besides Muddukayray there are three other Arrah-muhni, or palaces, the most remarkable is Naku naad, it was built by the late chief, and is now occupied by some branches of his family; the next is Gurrawully in Gudday naad where reside the descendants of the second brother; and lastly Hahlayray in the naad of that name. This was the residence of the present chief before his accession to power; the three palaces just mentioned are not remarkable either for extent, or elegance; the first is the largest, it is fortified after the native fashion by a strong wall with small round bastions at the angles; the circumference of this fortification is exceedingly limited, it is however surrounded by a very deep ditch, and high embankment, leaving a small open space between the inner walls, and this outer work; the approaches to it are guarded by various barriers, thus, making the whole comparatively strong; the other two have but little remarkable about them, they are after the plan of all other native houses, but well built upon a very large scale, and encompassed by breastworks, and the road leading to them secured by barriers. The lands in the immediate vicinity of those palaces are estates severally belonging to them.

Remarkable places below the ghauts. There are no other places worthy of notice above the ghauts, and below them there are but few of any consequence, indeed, none in Sooleay. Bullaree the capital of the magunnie of that name may deserve mention, as being a place of some small trade, the cutcherie here is the seat of the principal authorities of the district. Bedderholay, Neirrenuggurra, and Kullukah situated on the great road proceeding to Mangalore are each small towns consisting of, from 15 to 20

houses and in them centre the little traffic carried on in those parts.

Poottoor. Poottoor though the chief place of the talook has no petta, and is only remarkable for a large Pagoda, and being that where the principal cutcherie is stationed; Uddoor the capital magunnie of that name is situated exactly under similar circumstances.

The enumeration that has just been given, contains all those places that deserve any particular mention, it will not be necessary to state any further here the different places where cutcherries are situated.

The Table of Division and villages &c. shewing all information of this nature, and as it has been already observed, that, there are no particular cusbas to each of the minor districts, it will be understood that those offices are the chief places of them.

Forts Droogs &c. The rugged aspect of the country fully answers all those purposes for which regular fortifications are designed, strong in its numerous fastnesses, it is almost everywhere fortified by nature, each hill, offers a new post, and thick woods present, a place at once for concealment and defence, thus guarded, it requires but little art to increase the obstacles which naturally oppose themselves, this has been done to an extent, that speaks forcibly the attachment of those mountaineers to their native wilds.

Fort of Muddukay-ray. Though for a long time the chief place in Codugu there was no fortification till the reign of the Sultan who erected the present one.

As a military post Muddukayray owes its strength entirely to its situation, the elevated table upon which it stands once surmounted, all difficulties may be considered as overcome, encompassed by a circle of hills the approach is everywhere difficult, it is shut in by 4 gates each commanding the heads of the only passes that give access to it\*, those ghauts are generally steep and broken, and

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\* Vide series of Routes.



the approach to them naturally rugged, can be otherwise variously obstructed; strong from their position, occupied by a small number of men, and defended with any ordinary share of resolution, they could not be forced without considerable loss to the assailants. The south ghaut is comparatively short being little more than half a mile, the road is very steep, but good, and partially free from forests; the ascent of those on the east and west is considerably longer, and more rugged, and both are enveloped in thick woods; that on the north is much the best pass, both as to length and ascent, indeed, the extent and acclivity of it is comparatively trifling, the entrance to those passes is flanked by a deep ditch, the gates however at the head of each are weak, and could be readily forced, none of them could resist a petard.

Tippoo, as has already been said, built the present fort of Muddukayray, doubtless for the purpose of securing more effectually his conquests, and agreeably to his system of nomenclature, he set aside the Hindoo name, substituting in its place the Moslem appellation of Zuffierabad; he displayed but an indifferent judgement in fixing on the site of the fort, as it is completely commanded on the west, the small hills in that direction quite overlooking it. It is situated on the summit of a low top, and has a rather steep acclivity for about half its circumference, the remaining part, that is, the north and west has a gentle ascent, and on this account must be deemed the weakest. The figure of the fort is irregular, and its walls in few instances conform to the scarp of the hill. The ramparts (on which no guns are mounted) are about 8 feet thick and nearly 20 high, the parapets however are only about one fourth that breadth, the whole is strongly built of stone and mortar, it is surrounded by a ditch which in point of breadth and depth, is not of sufficient magnitude to offer any material impediment, there is a very large space between the foot of the wall, and its scarp nearly 30 feet; the entrance is on the south, and like most native fortifications it is intricate, and circuitous, close to it and immediately under the walls are some of the Public Offices, they are built upon an elevated platform (surrounded by a slight parapet) to which a neat ornamental gate gives access, those buildings (in a military point of view) greatly encumber the entrance of the fort, and materially increase the faci-

lities of its capture the whole is in excellent order and preserved with much care. Its regular garrison consists of 300 Codugus, who are relieved agreeably to the ordinary routine at the expiration of every 15 days. The interior space is occupied entirely by the Palace, and the offices belonging to it. It is inhabited alone by the Rajah and his suite, indeed the whole may merit the designation of a fortified castle more perhaps than a fortress.

\* From the above description it will be seen that this fort is evidently, but little calculated for defence. Capable of containing but a small number of men; constructed without art, and so completely commanded by the hills in its neighbourhood, it could make no resistance against bombs, or even canon of a small calibre; the nature of the ground would leave a choice in conducting the attack, and indeed, there would scarcely appear to be much necessity for those preparations, as it seems quite capable of being taken by a *coup-de-main*. A well directed escalade (the assailants having shelter in most places till reaching the foot of the walls) could not fail of being attended with complete success.

With the exception of Muddukayray there is no regular fortification of any kind in the country; the hilly nature however of it presents innumerable places, that could be readily rendered defensible, and which might easily be concealed amidst those almost impenetrable abodes. All native chiefs are fond of having some stronghold to which they might retire in the last extremity, and though there is every reason to believe, no such now exists here, the country in the vicinity of the ghauts offers numerous points, where a retreat of this nature could be easily formed.

\* A disinclination to increase the feelings of suspicion which were evidently entertained by the Rajah, prevented a survey of the Fort being taken after the manner that could be desired—that is on a very large scale, and by absolute measurement with the chain—such a proceeding however, would have produced considerable uneasiness, nor would the attainment of this object be accompanied by any adequate advantage, it was therefore considered prudent to waive any measurement of this nature. The accompanying plan however exhibits a survey of the Fort and the surrounding country. It is done after the usual manner and on an enlarged scale, this sketch together with the description given, it is hoped will convey every desirable information on the subject.

Cuddungs or  
Breast works.

The breast works here called cuddungs which are seen in almost every part of the upper country, afford a singular instance of the indefatigable perseverance, with which those highlanders toiled to secure the possession of their hills, those monuments of their exertions are said to be of ancient date, and the large forest with which they are mostly overgrown, would entitle us to come to such a conclusion, the great distances to which they stretch, the steep acclivities they ascend, and the high ridges they surmount, cannot fail to impress a feeling of wonder, at the immense labor, that must have been required in the formation of them, those lines presenting a similar front almost always looking towards the surrounding countries, the exact conformity of their construction, and the solidity with which they have been made, their situation, running along the crests of the hills in the more mountainous parts, and in the comparatively flat country towards the eastern borders in most cases flanking the roads, all combined to impress a conviction that they have been formed as it evidently would appear for the purposes of defence. Such doubtless has been their general destination. The change of manners and habits leaves us in obscurity as to particulars. No immediate connection as a whole can be traced; as they pass along the tops of ridges or over slopes for considerable distances, never assuming any distinct figure, but always conforming themselves to the inequalities of the ground and terminate abruptly in the woods; it may however be generally observed that they occupy the most exposed places, the forest being in itself considered a sufficient defence, they are frequently seen in small insulated portions, for which it is not easy to account. It will be seen that they are uncommonly numerous on the road to Bagamundla from Mudukkayray, the necessity of so many defies conjecture, they may however suggest the question, whether they owe their rise to intestine feuds or foreign wars. A portion of those defences have resisted the effects of time being still in tolerable repair, and from what is left, some idea of the original design may be formed; as Military works however they are nearly useless, their great length rendering it impossible to defend their whole extent.

The situation and course of the principal cuddungs have been marked on the map, innumerable others are everywhere to be met

with but are now too imperfect to be traced.

Defences of the  
Roads

The care taken to secure the passage of the great roads, and even to barricade the smaller paths, adds another proof of the solicitude with which the Codugus guard all approaches to their mountains; similar apprehensions suggest in most instances the same precautions. All mountainous Rajahs are remarkable for rendering the access to their possessions as difficult as possible, it appears a part of the policy of the authorities here, to limit the greater communications to as small a number as is at all practicable, and to impede the few there are, by innumerable barriers. Many of the roads are studiously lengthened, that for instance leading from Mysore to Mudukayray is remarkable for the unnecessary circuit of its route, all are narrow and rugged and difficult, the breast works that intersect them are formed of a deep ditch, and high bank; a reference to the routes will shew, the number and situation of those stockades, and exhibit in minute detail the general character of the communications with, and through the country, as also the various obstacles that are to be encountered on them.

Villages and Towns

There can scarcely be said to be any towns in Codugu.

Unlike the open country, the villages of Codugu (with the exception of Yailsowra and Nunjarajputtun) consists of detached habitations extending along the narrow valleys that wind at the foot of the high grounds, and an indefinite number of those cultivated glens have the collective designation of grama, which may be translated canton or township to which it has a considerable resemblance; this is divided into several minute portions termed mouzas, muzeras &c., which are considered dependencies of it; the lands belonging to the grama, are marked by a well defined boundary. In Yailsowra and Nunjarajputtun the villages are arranged on a different system, being in those districts in a more collected form, their arable grounds lying immediately contiguous to them.

It will not be required here to describe the internal economy of the village administration, the arrangement common throughout



the western coast appears equally to prevail on the whole of that mountainous tract, occupying the immediate summits of the ghauts, such at least is the case throughout Codugu; the number and occupation of the officers belonging to the village establishment, differing in no particular, and the same admirable system as to the government of the little community can be traced in every instance. The accompanying Register will be found to contain a list of all the interior divisions of the country, also of the villages belonging to them, exhibiting at the same time the actual position of each from the nearest Trigonometrical station.\*

#### Waters &c.

Codugu enjoys all the abundance of water consequent to a hilly, and well wooded country. The rich garb of forests which clothes almost its whole surface, retains a humidity that produces a luxuriant form of trees, and herbaceous plants, which brings to recollection the florid vegetation of more temperate climates. It is every where furrowed with rivulets, and traversed with numerous smaller streams branching from them, those generally have a constant supply of water, the more hilly parts are highly salubrious, and water for irrigation, or domestic purposes is generally plentifully afforded. Wells are uncommon, nor indeed are they at all necessary. Yailsowra and the flatter parts of the eastern boundary are not so happily situated in this particular, but neither are remarkable for any striking deficiency.

The lower country is also furnished profusely with this important element; springs descending from the higher grounds diffuse a freshness and vegetation, in all the numerous little valleys through which they shape their course, those parts in which the aracca plantations are numerous, enjoy an abundant share of this necessary article, indeed, there is sufficient for the irrigation necessary for a second crop in every part of the lower districts, and occasionally enough to mature a third; it is however only the deep narrow glens occupied by the arable lands, that are thus favored, the high grounds with the exception of the woody parts of Sooleay bordering the foot of the ghauts are for the greatest part of the year parched, arid, and quite

\* *Vide*, appendix No. 1

devoid of vegetation. The whole of Poottoor presenting one extent of naked rock on which are seen only a few verdant shrubs to vary its painful uniformity; the rainy season, being the only period in which the elevated lands throughout those parts, assume a more verdant appearance.

#### Rivers &c.

The waters of Codugu divided by the ridge of ghauts fall into the sea washing both coasts of the Peninsula, those of the upper country flowing into the Bay of Bengal, while those of the lower districts, are lost in the Indian Ocean.

It may generally be observed that none of the rivers of Codugu are considerable, either as to breadth, or depth; their supply of water however is everywhere generally abundant and constant, their sources lying so elevated, added to the steep declivity of the country, impels their streams with a rather rapid course, they are with the exception of the Coomardarray not navigable, and almost wholly useless for transport of any kind, except when swelled by the periodical rains, during the continuance of which, rafts might be used on them.

The inequalities of the country through which those rivers shape their course, and the general height and steepness of their banks, (which they are not subject to overflow) necessarily precludes the possibility of their promoting culture by a diffusion of their waters; there are no works, or anicuts of any description on them, the numerous subordinate rivulets answering all the purposes of artificial irrigation\*.

The whole of the minor streams intersecting Codugu vary only particularly in size, their general characteristics (a rather deep and rugged bed, through which alternately flows a shallow rivulet, or

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\* Close to the village of Hanugoad beyond the Codugu frontier in Mysore there is an anicut across the Letchmun Tirut, there is also one across the Cauvery at some distance below the village of Sayrungal, this however is also in Mysore.

rushes a tempestuous torrent, as influenced by the seasons) being in most other instances quite similar.

It may here be observed that the rivers both below, and above the ghauts in Codugu, begin to swell in the early part of June, and flow with a violent, and boisterous rapidity till October, when their streams become more placid. The excessive and continued rains common amongst those hills for the intervening months will readily account for the immense body of water, that during their continuance forces its passage even by the smallest rivulets, which widen into torrents, and subsiding with the course, leaves an immense chasm, that is but partially occupied by the stream during the other parts of the year.

Cauvery Codugu proper gives birth to the Cauvery and two principal streams tributary to it, the Sornawutty on the north and Letchmun Tirut on the south, the former running for its whole extent within the country joining it, at the village of Coodigaig (on the boundary), the latter continuing its course for some distance through Mysore, and fertilizing the districts on its borders unites with the parent stream.

The rivers of Hindoostan, doubtless from their beneficial effects, are supposed to be the offspring of some divinity, and their rise and confluence held in religious veneration by the Hindoos; each river has its parent deity, and a wild and fanciful polytheism makes them the scene of some remarkable events connected with their theological History.

The source of the Cauvery does not fail to attract the devotion of the pious, it issues from amidst the recesses of the Western ghauts, and the spring from which it takes its rise is fabled to have been a Nymph of exquisite beauty, the daughter of one of the seven Rishees who while performing Tupysa (or penitential devotion) dissolved into the little fountain which now yields its modest, and distant tribute to the ocean. Immediately on passing Bagamundla it is joined by the Kunniky the Naiad of whose stream is like her sister Goddess the subject of a romantic fiction.

Ishwara is worshipped at the source of this river, his temple however is exceedingly small and mean, indeed the place altogether owes its celebrity to its sanctity, and must rest its claim to distinction on its intrinsic excellence, entirely devoid of architectural grandeur. If the weary devotee forms his expectations from the splendid edifices of Benares or Juggernaut, or the numberless other holy places in making the pilgrimage of which this forms a stage, he will be disappointed.

No remnants of antiquity decorate this interesting spot; the sacred spring is in the form of a reservoir of about 10 feet square, and 2 deep, it is enclosed amidst mountains (those in its immediate vicinity are dedicated to the seven patriarchs) and is surrounded by wild and picturesque scenery. The road from Bagamundla is nearly 3 miles, winding gently among the heights, but has none of those monuments on it that frequently adorn the avenue leading to any remarkable place of worship—There are 3 temples immediately at the junction of the Cauvery and Kunniky, they are dedicated to the Hindoo triad; those edifices though considerably more elegant than that above, merit but little attention. The sungam or point of confluence is reckoned holy, although of greatly inferior efficacy to the source.

Tulla Cauvery ranking high among the places of religious sanctity, devotees of all descriptions constantly resort to it, either in the fulfillment of some vow to propitiate the deity, or in the ordinary course of their pilgrimage; but at the Jatra, or annual festival which takes place in September, the concourse is said to be from 5 to 6000 and from all parts the superstition is stated to be of a profitable nature, each pilgrim as he bathes in the Holy Fountain places a piece of money in it, and those votive offerings are carefully transferred from the Treasury of the deity to that of the Circar—a great liberality however is shewn to all whom purposes of devotion may have brought to the celebrated fair, as they are fed for the whole, or large part of the period they may remain.

\*The Cauvery may be considered from its length, and the volume

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\*The space of country whose waters contribute immediately to the Cauvery is  $426\frac{1}{4}$  square miles.



of waters which it carries to the sea, as one of the principal rivers of the Peninsula, it pursues a course of nearly 400 miles, and after fertilizing Tangou disembogues between Negapatam and Tranquebar, mingling its waters with those of the Bay of Bengal. The course of this fine river through Codugu is very tortuous, and its banks are overgrown mostly with a stately forest, which for the greatest part of its whole extent overhangs its borders, they are universally of a rich clay or mould, and every where sufficiently high (on an average nearly about 15 or 20 feet) and steep if not precipitous, as to render their ascent difficult, the general breadth of the river is liable to some varieties, but it imperceptibly increases from its source, its extreme width at the point of departure being about  $\frac{1}{3}$  of a mile, the bed over which it flows differs in various places being occasionally sandy, pebbly and rocky; the latter feature may however be considered as the most pre-dominant, and consequently is subject to great irregularities of surface. The established passages over the Cauvery are exceedingly limited during the dry months, there is only about  $3\frac{1}{2}$  feet water where it is usually crossed, the river however is not generally fordable even at this season, its depth throughout being extremely unequal varying almost every furlong, but in most parts of the latter 20 miles, it is of sufficient depth to render boats (except in a very few places) at all times necessary. The river forms a strong barrier, and well fitted for defence, the roads leading to the passage of it are stockaded, and could not be forced without some difficulty. The Cauvery from November to the end of May has a rather lovely stream, and a considerable body of water when the vicinity of its source is considered—immediately in the neighbourhood of it, the smallest depth may be 2 or  $2\frac{1}{2}$  feet, but the greater portion is much beyond this; for the remaining part of the year it assumes the restless impetuosity of a torrent, and during this period is possible to be forded from a short distance west of Bagamungalum

Soornawutty. \*A branch of the Soornawutty issues from the table land on which Muddukayray is situated; its waters however chiefly flow from Cotta Betta, and the numerous mountainous ridges, and minor heights that run in every direction from this immense hill, it will not be desired parti-

\* The space of country whose waters contribute immediately to the Soornawutty is  $256\frac{1}{2}$  square miles.

cularly to enumerate the countless rivulets that contribute to swell this fine stream, as they offer no exception to the general observations that have been made, their course from the rugged nature of the country is extremely winding, their banks are of clay overgrown with jungle often steep, not unfrequently rugged, and passed with difficulty except at established fords; their beds are generally stony, and their breadth variable—not however very considerable—the flow of water varies with the season, during the rains it rolls rapidly along, but for the other parts of the year has a tranquil stream. The nullahs may be considered in most instances as perennial.

After passing the village of Gurgandoor, the Soornawutty joined by many of its tributary branches, begins to assume the appearance of a river; it is here about 400 feet broad, and increasing in size from the accession of the numerous streams on either bank, is nearly as large as the Cauvery at the point where it unites with it; leaving the village of Hahdagayray the banks of this river become rather high and steep, and thence continue so throughout, they are generally of clay, and during the latter part free from forest; its waters run over a bed, in most places rocky—their depth as has been said is influenced by the seasons; in the monsoons it has an impetuous tide, which after October gives way to a gentle stream, in the former instance it is not to be forded but during the latter period, is little more than 3 feet deep.

Doad Holay or Luchmun Tirut. \*The Doad Holay or Luchmun Tirut is the principal channel by which the waters of the southern parts are conveyed to the Cauvery; this river rises amongst the Burumagarry hills, its source situated at the foot of this ridge, is a place of pilgrimage, the little spring however that is the object of religious veneration, has nothing but its intrinsic sanctity, and the picturesque wildness of the surrounding scenery, that can recommend it to observation.

The Luchmun Tirut river runs but a very short distance through Codugu, nor is it in any place during its course remarkable for its size, the extreme breadth may be averaged at about 140 feet

\* The space of country whose waters contribute immediately to Luchmun Tirut is  $3121\frac{1}{2}$  square miles.

gradually decreasing of course as it approaches its rise; springing from so extended a range of mountains, and running through a country whose general character is woody, this river as will be inferred has a constant supply of water, like the others it varies in quantity, but when not filled by the rains, its depth, from where the small rivulets unite to form the larger stream, may be about 3 feet; it cannot be called fordable in the rains, but is so during the dry season, the steepness of the banks alone offering much impediment at this period—they are of clay and shaded by forest—the bottom is universally sandy.

The inconsiderable portion of the waters of upper Codugu that flow into the Indian Ocean, discharge themselves chiefly by means of the Burrapollay, a small river that passes into the lower country by a gradual descent through a deep chasm in the ghauts, which during the latter part of its course, forms a rocky wall on each side; it drains the waters of 192-12-64ths square miles.

There is nothing with regard to this river which is of sufficient consequence to require a specific mention; it has a constant flow of water, and, while in the upper country, a sandy bottom.

**Burrapollay.** The Burrapollay is a branch of the Brullypatam river, which falls into the sea at the town of that name, and is navigable for small craft as far as Illicoora village on its banks, situated 16-6 miles from the foot of the ghauts.

**Hemmawatty.** \* The Hemawatty is now the only river of consequence above the ghauts to be spoken of. It rises in the hilly parts of Bullum, and the waters of Codugu contribute but little to its stream. The Hemawatty passes for an inconsiderable distance along the northern boundary, its bottom is sandy, and its depth little more than 3 feet in the fair season, which is the only period it is fordable, the banks are steep, and like the other rivers in the interior, is incapable of irrigating the country on their borders.

**Rivers below the Ghauts.** The Noojee kul, or as it is otherwise known the Pruswunni river, descending from the ghauts that skirt the eastern border of the Sooleeay

\* The space of country whose waters contribute immediately to the Hemmawatty is 84½ square miles.

district, and the Coomardarry springing from the foot of the Soobramuhni hills, are the principal rivers that intersect the lower districts—the former disemboguing at Chundarghurray, and the latter falling into the sea at Mangalore.

The union of the Sumpajee and Bullanaad Holay, (the point of confluence taking place at Payrahjee,) forms the Noojee kul, which having run for some miles, and being joined by various minor streams, during its course assumes the name of the Pruswunnie—this river flows through a country generally hilly, at least of a very irregular surface, and partially covered with forest, it enjoys consequently a large and never failing supply of water. Its stream from October to May glides tranquilly along, and may at this period be from 3 to 4 feet deep in those parts where it is passed, but in this particular its character is liable to much variety, and in most places it is of great depth, it is however only during the monsoon when its enlarged stream rushes with a restless impetuosity, that it is at all navigable, and is then only useful in floating timber by means of rafts—The tide affects it but a short distance from its mouth. The passages of this river are rather numerous; but it is not even in the dry season everywhere fordable, its breadth however is not great though it is tolerably uniform in this particular throughout, being where it quits the Codugu districts of about 400 feet, and in the higher parts 100 less.

The bed of the Pruswunnie is generally of a rocky character, and consequently very unequal in its surface, its banks are rather high and steep after passing Payrahjee; approaching the sea however they become gentler, and much less precipitous, they are throughout of clay but though low, the waving nature of the country on their borders renders it impossible for the waters of this river to be of any use in promoting cultivation.

**Coomardarry.** The Coomardarry being the northern boundary dividing the lower districts from North Canara, is but partly formed from the waters of Codugu. In most material points its character is quite similar to that of the Pruswunnie, its banks however are not remarkable for height during the early part of its course, but they increase in this particular as they approach the sea. It passes through a rather rugged but well



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cultivated country, the low steep hills that cover its surface generally run close to the river, its banks consequently are incapable of being rendered subservient to agricultural purposes, the flow of water is always considerable, the depth in the higher parts may be about 2 feet which gradually increases to 3 and 4 where it branches off from Codugu; it is crossed in numerous places but is not generally fordable in the dry season, and during the wet, the force and velocity of the stream renders a passage of it impossible except in boats. The bed is partially rocky, its breadth at its extreme points may be from one to seven hundred feet.

The village of Oopin-Ungadday is situated where the Coomardarry and Nettrawutti meet; from the point of confluence the united streams assume the latter name, and pursuing their course to Mangalore, form one of the finest of the numerous rivers that intersect this coast, it increases considerably in breadth, and when near its mouth spreads into a beautiful Bay. The Nettrawutti though useless for purposes of irrigation is of infinite service for those of commerce, it is navigable for small craft to a short distance beyond Oopin-Ungadday, and from the commercial town of Buntawalla on its northern bank for boats of considerable size, the influence of the tide reaching to this place.

Irruday Holay. The Irruday Holay is characterized by all those particulars, that mark the two rivers last spoken of, it however is smaller than either being at the point of departure only about 250 feet broad; its flow of water is abundant and perennial.\*

A view of the map will show the minor streams that contribute to the principal ones of the lower districts, it would be an unnecessary repetition to give a specific account of each, as they cannot be said to have any peculiarities that render them an exception to the general character which has been given of such secondary channels.

\* On the bank of this river close to the village of Irruday (and belonging to the Company) is a hot spring, immediately in its vicinity in the bed of the river also issues one or two small streams of a similar temperature. An account of this spring will be found given.

Lakes, Tanks, Reservoirs &c. Throughout Codugu there is not a lake or reservoir of any kind meriting particular observation; in the more hilly parts such are quite unnecessary, and consequently unknown. Yailsowra and some parts of Kiggutt naad, are the only places where tanks are to be found, and they are exceedingly diminutive in point of size, the largest not exceeding at the utmost one quarter of a mile square, and but very few reach to this area; they are all for the purposes of irrigation, and contain for most part of the year a small quantity of water—there is nothing with regard to those reservoirs of sufficient consequence to deserve any further notice—if they are at all remarkable for any thing, it is for the numerous quantity of wild fowl,—principally ducks and teal—with which they are covered for a few months subsequent to the rainy season.

Forests, Woods, Jungles, &c. The whole of Codugu proper is clothed with stately forest, it is however the declivities of the ghauts where the trees attain their greatest magnitude, this stupendous ridge which though steep is neither broken or rocky, and is everywhere covered with a rich stratum of mould, brings to maturity timber of a prodigious size; a large portion of the eastern boundary presents a wide extent of forest, but though by no means of scanty growth, it is comparatively so, with that which shades this chain of mountains. Bamboos in all their varieties compose a large part of interminable woods, and this most useful, and beautiful reed, is here found in the greatest excellence. The jungles are difficult to traverse; in many places the Rattan of various dimensions, and nearly of as good a quality as that brought from the eastern islands, together with the delicate reed from which the Hindoos make their pens, aided by unnumerable plants and creepers, not unfrequently forming an impervious underwood.

Such a vast assemblage of woods leaves a large scope open to the labors of the Botanist, and there can be no doubt his researches would be attended by results equally interesting, as the field of inquiry is novel and extended—to such must be left a scientific classification of the woods in Codugu, as a very general catalogue of the most common will only be here attempted.

Hulsiná, Jack, (*artocarpus*) extremely common in the upper



country both in the neighbourhood of the villages, and throughout the jungles. It grows to a large size—makes excellent planks.

Heb, Hulsina or Aginney. This is the wild Jack, grows in the thicker forests, and reaches a great height, its fruit though eatable is small and very unpalatable, it furnishes large and excellent beams and planks, when cut it has a light yellowish tinge, but after some time approaches the rich dark color of mahogany.

Maurie. Those stately Palms grow in great quantities on the sides of the ghauts. The Elephant is partial to the leaves of their branches, and often destroys the trees for the purpose of getting at them. Toddy is extracted from them by a poor caste of people called Coodyer.

Wild Arreca. This tree is considerably smaller than the garden one, but in every other particular resembling it; it bears a small fruit, which is used as a substitute for the areca nut amongst some of the lower classes; it splits with great ease, and is calculated for laths.

Arreege or Arringy. Produces large timber, and is useful in building: this is only common below the ghauts; the bark of this tree is turned to a useful purpose being carefully stripped off, and undergoing a slight preparation, it is manufactured into bags for transporting grain, and sometimes into cloths, continuing servicable for sometime.

Mangoe (*Mangifera*). Grows to an immense size throughout the country, but its fruit is everywhere indifferent.

Tamarind. This tree only thrives on the borders of the more open country. It is met with in the interior, but does not there produce fruit; in the absence of this necessary seasoning that of the Punnapooley is used.

Punnapooley. This is a beautiful tree, large, regular and elegant in its form, the fruit of it is something bigger than the Olive, shaped like it, excessively tart, and makes an excellent condiment. Oil is said to be sometimes extracted from its kernel.

Doopada (*Vateria indica*). This is known as the Damer tree, from it exudes a gum much used in incense, it has a

beautiful foliage, and grows best in damped situations. The timber is of but little value.

Boolundy or Nandy. Attains a great height, its timber is useful in the coarser woodwork of buildings.

Chempay or Sumpagy. This tree is common throughout the upper country, it reaches a great stature, and produces excellent timber, there are two species of it, differing however not very materially; its wood is of a close grain easily worked, and capable of being put to many useful purposes, it makes good furniture, is used to great advantage in buildings, (affording large beams) and even in nicer workmanship, answering well for stocks of guns &c. This tree is frequently met with in the vicinity of religious temples as it produces that delicate flower with which the Images in them are adorned.

Kooloomy. Of great size, and useful in building.

Nayrula. Large and useful, the fruit is of a black color like the sloe, and is eaten; of the wood ploughs are sometimes made.

Baaga. Large but useless.

Ummay. Produces a small eatable berry having an agreeable flavor, is excellent firewood.

Bussaree. Ropes are sometimes made from the filaments of its barks, it has a rich foliage, affords excellent shelter from the sun, and is always found near choultries, and places of worship.

Kyooloo. The bark of this tree also furnishes ropes more flexible, and otherwise better than those manufactured from the former.

Beety or the Blk-wood tree. It is met in great size, and large quantities in the forest along the eastern boundary, it is good timber, but not used as such, being only generally cut for the purpose of making flambeaus for which it is well adapted from the quantity of oil it contains; it makes excellent ramrods.



Noga.

A large and beautiful tree its wood is light, and from it is manufactured the Noga or yoke connecting the cattle employed on the plough—from this it takes its name.

Mutti (*Chuncoa Muttia*.)

This tree is the native of a comparatively poor soil, it is found in the lower districts where it predominates: it is straight, grows to a great size, and affords excellent and durable planks and beams; from its bark is manufactured the best edible chunam, and the only kind here used, the process for making it is simple; the astringent qualities of its bark renders it useful in tanning.

Golee.

Its bark makes good ropes.

Auladu or Bauian-tree

Too well known to require a character here.

Saantee.

Large but useless.

Siduee.

Exceedingly large, and very hard, great quantities grow on the sides of the ghauts, it is said to be good timber.

Powillay.

Small, and only fit for firewood.

Yaillundee.

Small, produces an olive shaped fruit which has an agreeable flavour.

Pindy.

Found principally below the ghauts, it is straight, and of great stature, its branches are very regular; this tree appears a species, if not actually what is called the Poon, and is extremely well adapted for mats, it produces an oleaginous fruit, which when dry is made into a kind of candle much used.

Siripauly

Of great size, and in large quantities, its timber however is said not to be durable.

Cotapaully.

A species of the former, its timber is soft and something like deal. Musical instruments are sometimes made from it.

Siripinni.

Large, and straight, the bottom part entirely disencumbered of branches, it is well adapted for

masts—it is durable and good for every kind of woodwork.

Uttee, (wild fig trees.)

The fruit is tasteless, and the timber of no use.

Mootagudla.

The seed is used in medicine, the flower has a yellow temporary dye, the leaves used by the natives to eat their food from.

Baingay, (*Ficus Bengalensis*.)  
Hugginu.

A beautiful but useless tree.

Tolerable timber—species of the gum tree.

Nirkooku.

An immense tree, with a rich foliage, only grows in the vicinity of rivulets—is useless as timber.

Comuty.

Bullapaully.

A species of the Siripauly from which it differs but little.

Allighinnu.

A species of the Poon adapted for masts.

Gayru or Cudju  
Nut Tree.

The wild Gayru grows to an immense size but is of no use.

Honmay, (*Pterocarpus Santalinus*.)

A beautiful tree, and valuable timber.

Mallingooly.

Large, and good, timber.

Hooleengee.

Small; its wood is of a reddish color.

Tuddachella.  
Cuddavaud.  
Woodee.  
Toopra.

Used as timber for the smaller houses, but principally as firewood.

Taygadn, (*Tectonagrandis* or teak tree.)

This valuable tree is by no means common throughout the whole extent of the country—it is seen along the eastern border, but of no superior quality, or size—it is scarcely ever to be met with in the lower districts, or along the sides of the ghauts.

Dindagua (*Andersonia Panchmum*)

A Gum tree, large size.



- Gubbiel. Small, the native of a poor soil; matches are made from its bark; stocks of guns, and ploughs from its wood.
- Churuhonna. Of large size; canoes are made from its trunk.
- Bellasyndy. The wood furnishes strong beams which are used in the building of temples &c.
- Caasurcunnu. Only to be met with below the ghauts; it is large and has a rich foliage. The fruit of this tree is globular as to shape, and about the size of an apple; it is of a most brilliant red color. To man it is poison; it is however readily eaten by cattle, and imparts an extremely bitter flavour to the milk of those cows which have fed on it.
- Holuch, (Chuncoa Holivay.) Its timber is used for building.
- Beddikary and Pavu Do. do. do.
- Cumma. Used as firewood. Wild honey is collected from its branches.
- Ticay (*Laurus Cassia*) This tree is only met in the western parts of the lower districts. Toddy is extracted from it; the native of a poor soil, it is no where to be found above the ghauts.
- Palmira (*Borassus Habeliformis*)

Fruit trees thrive very well, particularly the orange, citron, and lime, all of which are here found in great abundance, and of peculiar excellence.

- Bamboo. This reed, so generally and extensively useful, forms a large part of the forests. Some few remarks as to its physiology may perhaps not be unacceptable.
- This valuable plant grows in clumps, and is said to live for 60 or 80 years, it blossoms at the end of that period, and this state is known as the prelude to its dissolution, as the whole of the tree above ground subsequently withers and dies. The number of years to which the bamboo reaches is still questionable, as it does not seem yet known to what age the seedling will survive, and from this circumstance only

can the fact be known; the fixed residence of Europeans in India is perhaps not sufficiently long for any one individual to prove it by experience.

A curious fact in the history of this reed occurred a short time since in Wynaad; the ryots in that country having petitioned the Collector for some remission of their assessments, owing to the losses they had sustained from an extended portion of the bamboo forest having gone to seed, (their subsequent decay causing a considerable loss to those who had the privilege of disposing of them) so general was this decay that in the month of March 1817 passing through this district in the course of 11 miles, there was scarcely a bamboo tree to be seen in the extensive forest, through which the road ran, that was not either dead, dying, or in blossom. Clumps of all ages and size contiguous to, though distinct from, each other, were in a similar situation; the smaller clumps here mentioned were supposed to be shoots, which had risen from the larger ones.

From the above circumstances it would appear that, however immature, the dissolution was not the less certain, and the fact would evidently lead to the conclusion, that the parent tree and its offspring die together; this opinion is held by some Botanists,\* and is one that would appear verified in some measure from the circumstances above mentioned; adopting the idea, we shall not be surprised at whole forests of bamboo decaying at the same period. As a further illustration of what has been said, it may be observed that in 1800 several young bamboo cuttings separated from the root of the larger tree, were planted in the garden of a gentleman, and thrived luxuriantly, one of them blossomed in 1817, the experiment was again repeated in 1807, similar plants were put down and attained the usual size, 5 of them blossomed in 1816-17. It is conjectured that those shoots were separated from trees of different ages which died at the same period as their offspring. In the same garden with the above plants, were several bamboo trees which had been raised from seed in March 1817, they had attained their 14 years and were then in high health and vigour; part of those previous

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\* Mr. Knight.



experiments being only made on shoots, the proofs arising from them are not fully satisfactory, the observations that have been offered, however may tend to aid enquiry as to obtaining a more distinct information with regard to the physiology of this most useful reed.

The above catalogue presents but an imperfect list of the trees to be found in Codugu; it would not be difficult to enlarge it, but as it contains the names of the most remarkable, it was not conceived desirable to swell it by any further additions.

Agrarams of Bramins, Polliums, &c. Bramins so powerful and numerous in the neighbouring countries, never appear to have had any influence in Codugu, where the ecclesiastical class is exceedingly small; there are here consequently none of the agrarams which in most Hindoo estates, the pious credulity of the Chief confers upon that sacred order of men; they are numerous however in the districts below the ghauts, but as ryots, enjoying no privilege whatever beyond the other castes, indeed, there is no Hierarchy of any kind, and though the Chief is of the Sivabucter tribe the religious institutions belonging to his faith are confined to a very small number, and those but poorly endowed; a few insignificant mattams in Yailsowra, one at Mahdeopoor, and another at Maddukayray are the only establishments of this nature.

Jaghiers. Estates held in Jaghier are numerous, but none of them reach to any great extent, it has been found impossible to learn such information regarding them as could enable their position and limits to be ascertained; it necessarily follows, that no minute details as to those particulars have been acquired; some general observations however will be found to have been made on them that may serve to convey some idea as to the tenure by which those possessions are held.

Punneeyas or Royal farms. Some portion of the revenues of the Codugu Prince arises from personal estates or royal domains (designated Punneeyas) dispersed almost over every part of the country, the extensive landed property of which he is thus immediate proprietor, is of considerable value, and provides for one great source of expenditure.

The same unwillingness to communicate any intelligence that has just been a subject of regret, operated in preventing any distinct knowledge being acquired as to the number and extent of those estates. The accompanying catalogue will be found to exhibit the names of those which have been actually ascertained; there is but little reason to doubt however that a considerable portion still remain unknown, but without specific information no opinion can be hazarded as to their total amount; it is said to extend to twenty or twenty-four; the list now presented only includes those with regard to the existence of which there is no doubt whatever. The Estates are named after the village in which they are situated.

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|-----------------------|---|
| 1. Nunjarajputtun.... | } In the Naad of that name, very large, and has an excellent garden in which is produced the best oranges in the country. |
| 2. Kudgoadloo.....    |   |
| 3. Hayrow.            | } In Kooyangerray Naad.   |
| 4. Hoodhoar.          |   |
| 5. Sumpajee.          | } In Tawa Naad, small.  |
| 6. Currikay.          |   |
| 7. Muddukayray.....   | The Fort and fields in its vicinity.  |
| 8. Niddugunnie.....   | In Muddukayary Naad.  |
| 9. Kuddumkul          | } In Sooleeay Talook.   |
| 10. Kautoor.          |   |
| 11. Bylhully.         | } In the Poottoor Talook.   |
| 12. Bellioor.         |   |
| 13. Bullaree.         |   |
| 14. Buddugayray.....  | In Hahlayray Naad.  |

The grounds in the immediate vicinity of the palaces in Hahlayray, Naku, and Gudday Naad, are also the personal estates of the Rajah.

The arrangement as to the management of these estates is not in all cases similar; they are however principally superintended by agents of the Chief,\* stocked with his cattle, and tilled by his predial

\* We find a considerable Revenue of the Rajah of Travancore drawn from personal estates, and this source of Revenue appears to have constituted a part of that, of all the petty chieftains throughout Malabar and Canara, and was known in Bednore.



servants of whom he has a very considerable number. On the inhabitants of the district in which they are situated, is imposed the obligation of assisting either personally, or with a certain number of their servants, for a specific period at the time when the business of the Punneeya requires such additional aid.\* The cultivation of these estates is conducted with great care, and the order in which the whole is preserved gives them something the appearance of English farms. On each are extensive offices and granaries kept with great neatness; the predial servants live in the vicinity, and an active Parputty maintains regularity, and secures industry; they have in many cases gardens and other plantations belonging to them, particularly cocoanuts, below the ghauts.

The Punneeyás are principally sown with rice, but sugarcane, turmeric, ginger, saffron, and all kind of vegetables are grown on them. The produce of those estates chiefly goes to supply the household and maintain the numerous followers which the Chief supports; they are valuable as a revenue from their number and extent; their annual average produce in rice will be found stated in another place.

In some few instances the Punneeyás are occupied by ryots, who share equally the amount of their produce with the Prince—they being furnished by him with the implements and cattle necessary for the purpose of cultivation. This tenure (which does not hold with regard to those that have been mentioned) however is not so general as the system which has been just noticed, and it is only with some waste lands and inferior estates, that this mode of management is adopted.

These hills from the richness of their vegetation, the luxuriance of the forests, and the abundance of water with which the soil is supplied, would appear to point them out for pasturage; but neither the number, form, or size of the domesticated animals belonging to the country is such as would be expected from the above favorable circumstances; the length and violence of the rainy season however will in some measure account for the fact.

\* Numerous feudal services of this nature are required from the Inhabitants, but I am not qualified to particularize all the instances.

Of domestic animals there are but few indeed, they may nearly be said to be limited to those of the cow and buffalo kind. The extreme violence of the rains destroys sheep of which there are consequently scarcely any; some few may be occasionally brought from Mysore, but the country is too hostile to their habits, to admit of their being bred within it; even the goat and ass the native of every climate, and adapting themselves to every change of temperature, though hardy, can scarcely survive the rainy season, and are consequently rarely to be met with; hogs are amongst the short list of their domestic animals, they are reared for purposes of food, but are not in any considerable numbers. Poultry are reared in some quantity—There are no horses, except those belonging to the Rajah, as the few wretched ponies, that are to be met with scarcely deserve to be classed as such; were it not for the long duration of the rains Codugu would appear a favorable place for breeding them.

Kine.

The same inattention to the amelioration of the breed of cattle almost universal throughout this part of India is here equally remarkable; the rural economy of the Hindoo seems not yet to have attained this point; no attempts are ever made at improvement; the males, not emasculated till a late period, mix with the cows and propagate the same or more degenerate progeny.

The climate is said to be prejudicial to cattle of the cow kind, particularly in the more hilly parts where the extreme severity of the rains destroy those not native to the place.

Although it may be said they are rather numerous, they are rarely if ever exported, and cannot be viewed as an object of traffic, altho' some few are occasionally sent to the districts below the ghauts, but never into Mysore from whence indeed a small number of the better kind may even be imported.

The cattle common within those hills are more diminutive, and every way inferior to those reared in the open country of Mysore, and would appear a medium breed between those, and the dwarfish race of the western coast; the inferiority must for the greatest part be ascribable to the heavy rains which deluge these hills for near-



ly a third of the year. Nunjarajputtun and Yailsowra are somewhat better situated in this particular, and have a more improved breed. The cattle of Codugu however in general never rise above mediocrity; they are of gentle habits; a brown or black colour predominates, they have but a small hump, and a short thick but not coarse form, they possess some strength and are well calculated for the light plough in use; this however is the only labor that they can be well applied to, as their size renders them quite unfit for carriage of almost any kind; they are housed at night where they get a supply of straw, but are in other instances not tended with any particular attention. The ordinary price of a pair of oxen is 16 or 18 Rupees; a cow sells for seven.

The cow kind below the ghauts has degenerated quite to a pigmy standard; they are meagre, wretched animals, unfit for the road, being quite useless as beasts of burthen, and apparently even ill calculated for the common business of husbandry; it requires only an ordinary share of exertion to improve their condition; much however as the Hindoos venerate those animals, they cannot be said to treat them with a degree of tenderness, and care, in proportion to their superstitions. The cattle of the upper country when exported to that below are said soon to degenerate in these districts; the violence of the heat during more than half the year destroys the herbage, and in consequence cattle of every description are with difficulty supported; they are sometimes during this season fed on straw, but more generally on leaves (of the Uttee or wild fig tree in particular) which when boiled are mixed with the husks of rice and given them. With so few good qualities to recommend them, their value, as may readily be imagined, is not considerable, a cow and calf of the best description is sold for 6 Rupees, and a working ox rarely costs much more.

#### Buffaloes

The shade afforded by those jungles is favorable to rearing Buffaloes, and they consequently form a part of the stock of every cultivator; they are rather numerous in the more woody districts particularly in Kiggutt Naad, and generally in the southern parts, where the extensive uncultivated valleys, almost always in a marshy state, are quite congenial to the nature of those amphibious animals, they here attain a rather large

size, and the female yields nearly double the quantity of milk given by the cow. The male is well calculated for the purposes of husbandry especially in those agricultural operations that take place in the rainy seasons; he is seen sometimes yoked with the bullock, but does more labour, and lives longer, his age reaching from 12 to 15 years, during the greatest part of which he is capable of working; his general value may be from 16 to 23 or 24 Rupees. The Buffalo of these parts is of the usual color; he is a large bulky clumsy animal with long annulated horns, lying generally on the back of his neck, he is timid, stubborn, and vicious, not well calculated for carriage, from his unwieldy shape, slow movement, and inability to bear any heat.

The Buffalo below the ghauts differs in few particulars from the description just given, he is however smaller and more puny.

The recesses of these deep and lofty forests give Wild animals. shelter to innumerable wild animals; indeed these woods in all probability contain a greater number than is to be found in any other part of the peninsula of similar extent; they appear like one immense menagerie, the inhabitants of which having deserted the neighbouring countries, here fixed their final abode; most of them however are familiarly known, and the few loose observations here made can add but little to the stock of Natural History.

Codugu seems particularly favorable to the increase of elephants, which are here equally abundant as in Ceylon, they are gregarious, keeping in droves from 15 to 30, even more, led by a principal who directs their movements: they inhabit indiscriminately all the woody parts, but particularly towards the eastern boundary, retreating into the thickest forests as the hot season advances; they are voracious, destroying plantations and crops, and it requires the utmost care and diligence to guard against their inroads; they frequently pass the Cauvery in large bodies (as they swim exceedingly well) and ravage the fields on its borders; they inhabit likewise the stately, and luxuriant forest, that covers the whole face of the ghauts, they are there very numerous, and frequently extend their depredations on the crops of the husbandmen as far as Punjee; when met in droves, they do not always attack the traveller (whose apprehensions however sel



dom allow him to proceed alone) but encountered singly the utmost danger is to be apprehended; these solitary ones are supposed to have been driven from the herd, to which they dare not return, and in consequence become furious in the highest degree; the mode of taking them in kyddas, or folds, as in Bengal, and Ceylon, is unknown, they are always caught in kups or pits dug to a considerable depth, covered with a slight stage to conceal them, and placed immediately across the paths which the elephants are in the habit of frequenting; much care is necessary to disguise the snare thus laid, as these sagacious animals are known to be particularly acute in detecting it. A number of elephants for the supply of the Mysore Rajah are yearly caught on the boundary of the two countries close to Hanagode; so numerous are they in Codugu, that they are taken in almost every part of it. In taking them no other mode is practiced than that which has just been mentioned. If young they are easily tamed, but when arrived at a more mature age, a year; and sometimes two are necessary.

The elephants of Codugu are divided into two classes, the Dodda Ras, or large, the gidda Ras or small kind; (this latter is not remarkable for being particularly diminutive) distinguished however by no other peculiarities. They are not so valuable as those imported from Ceylon, being inferior in size, and less capable of work; it has been frequently observed, that these animals are less robust, and smaller as they recede from the sea coast, the natives here however do not admit that those from below the ghauts are stronger or bulkier, than those which are found in the country above; their tusks are generally speaking not large; some however are of very considerable dimensions, but in most cases, they make no approach in point of size to those coming from Africa, and I am led to believe, they are not often destroyed for the sake of them. The elephants are all considered the property of the Chief, and few other persons are allowed to possess them; they are never bred, and but little could be learned with any degree of certainty as to the general age to which they arrive, or any of the minuter parts of their natural history; these points are now however too well ascertained to render the absence of any further information on them a matter of much regret.

Tigers.

Royal Tigers of the largest kind infest these woods in vast numbers, as also cheetas, and

leopards, less ferocious, and equally beautiful; these animals do not here commit much mischief, as the abundance of game which they meet in their haunts prevents them from preying on men and cattle—the civit, toddy, and tiger cat, the ounce, or small panther, and other animals of the feline species, are to be met with.

Bears.

Bears are very common; they are large and always black, differing but little in size, and form from those of a colder climate; their flesh is good, and though not an unusual dish in some countries, is not here eaten; the bear is not carnivorous, feeding generally on white ants, wild honey, roots &c., his habits are comparatively gentle.

Wild Hogs of immense stature and strength abound, they are sometimes seen to attain the height of upwards of 3 feet.

The Sambre or Elk is still more numerous; they keep in herds and are found in great numbers along the bare tops of the ghauts; both these animals are greatly sought after by the natives, as they form the chief part of the animal food used by them; they are remarkably expert in destroying them. The sambre, when from under the shelter of the woods, is timid, and difficult to be approached; on such occasions the hunter covers himself with a blanket, and advancing on his hands and feet, approaches sufficiently near to shoot them. The red and spotted deer, also the antelope, are to be met with in equal abundance, but they generally inhabit the more open parts.

Kautee or wild  
Buffalo.

Large herds of these animals every where abound throughout the thicker forests; they would seem to bear a great resemblance to the Bison of naturalists. The kautee when very young is of a dark reddish hue, this however as he becomes older, gives way to the slate or ash colour of the domestic buffalo. The belly, legs, (as far as the knee joint,) breast and face, being however of a dirty whitish tinge; unlike the former the whole body is covered with long hair, particularly the dew-lap.

The wild and tame buffalo are evidently of the same species, varying only in those particulars, which are the results of their different modes of life; the former is remarkable for his greater strength, ferocity, and activity. The figure of this formidable animal is coarse



and clumsy, the forehead is extremely elevated, his horns are short and thick at the base, but gradually become thinner, leaving the tips small and sharp. They are remarkable for the uniformity of their curvature. The neck is extremely large and depressed, the withers have no hump, but are very high, and gradually sloping off, give to the hinder parts the appearance of being disproportionately low, and comparatively weak.

Not venerated like the cow, the kautee is killed without hesitation by the Codugus; its flesh however is eaten only by the very lowest classes; its horns are sometimes polished, and kept as ornaments, and the skin when tanned is occasionally made into shields; the wild buffalo is found on the highest hills, and though his habits appear less amphibious than the domestic one, he seems to dislike the sun and only emerges from the woods in the cooler parts of the day.

The kaymay is sometimes called the wildgoat but approaches nearer, to the goat antelope; it is a beautiful little animal, smaller, and if possible, more delicately formed than the deer, from which it only materially differs in the formation of the head, and structure of the horns: the latter are rather short, a little wreathed, and their roots for the first inch and a half are enveloped in hair; its cry something resembles that of the goat, and it doubtless has acquired for it the appellation it bears. It is killed by the natives, and is delicate meat.

Wild dogs are numerous throughout these hills, but it would not appear that they are peculiar to them; being known in Soanda and Bednore; they are also common amongst the Ramghur hills in Bengal, and met with in numbers along the banks of the Indus.

The kennais resemble the jackal, or rather something between it and the wolf, to which perhaps they make the nearest approach; they are larger, and more powerful, being remarkable for the strength of their jaws and neck, of a darker colour, and much more ferocious than the former; their voice resembles something of the barking of a dog; they associate in packs from ten to twenty, and thus united they will attack any beast of the forest. They kill the tiger, and

are said to be great enemies of the feline species in general; they are represented as excessively swift, never failing to catch what they once give chase to. On coming up with the object of their pursuit they invariably seize the animal by the genitals, or head; in the latter instance, immediately destroying the eyes, thus having once fixed themselves, they maintain their position sucking the blood of their unfortunate victim, and never quitting their hold till he has fallen from pain, or fatigue. The sambre, and various species of deer, are the principal animals they prey on; they are gregarious, living in societies from which it is said not to be uncommon to expel such members as may become obnoxious to them—death would be the penalty of his again returning to the herd. They are not considered as dangerous to man, and are never destroyed by the natives. The kennai is represented as never thoroughly to be tamed, and as languishing under confinement.

It would require a zoological history fully to describe all the animals of which these woods are the retreat; the slight notices here given, cannot much enlarge the knowledge of nature. It will not however be required further to mention, particularly, the long list of those yet remaining to be noticed. The most remarkable in the catalogue are the ant-eater, sloth, a beautiful kind of squirrel with a large and bushy tail (eaten by the Codugus,) the ferret, mungoose, armadilla, and all species of monkeys comprehending a most numerous tribe (said also to be eaten by those mountaineers) divided into various classes; amongst them the lion-tailed is the most remarkable, also the large black one sacred to Rama.

Reptiles do not particularly abound, nor are they remarkably noxious; the large forest snake (the boa of naturalists) is said to be common, but has not been met with. The feathered tribe are equally numerous, and various; but as they consist mostly of those known in the neighbouring countries, a list of them will not be considered necessary.

Not conversant in natural history, the above enumeration is necessarily loose and imperfect; in making it many doubtless have escaped notice, but there are none of them which are not already familiarly known.



Remarkable buildings.

It is a curious circumstance that throughout Codugu proper, there is but one building (Mahdeopoor Mattam) of at all an ancient date that merits the slightest observation; the absence of any, that has the least claim to extent, elegance, or solidity is remarkable; the numerous temples for religious purposes are small, mean, and mostly built of clay, nor in the few there may be of the better kind, are there any of those sculptures that adorn the commonest buildings dedicated to the Deity in the neighbouring countries.

In the district below the ghauts, the pagodas at Uddoor and Poottoor are the most remarkable, as being elevated and spacious buildings, they are kept in good repair, both exactly similar, and erected after the manner common in Canara; the pagoda is enclosed within a square raised two stories high, and is covered with copper; it has a double roof (the lower projecting beyond the upper one) and is of an oval form; the other buildings devoted to similar purposes are numerous, but small, not remarkable for any particular sanctity, and quite unworthy of notice.

Mahdeopoor  
Mattam.

This is in the village of Jumboor N. E. of Muddukayray; it is the ancient cemetery of the Codugu family, and is prettily situated on the

bank of a fine stream, it but has no claims to architectural merit. This building is about 40 feet square, nearly the same height, and stands on an elevated base; it consists of two stories, the one at bottom is the place of sepulture, the tomb being enclosed by a smaller apartment within the larger; the one above is open, the same size as the under room just mentioned, and is surrounded by a low balustrade; a large figure of Busswa sculptured in black granite decorates the lower apartment, and the same image adorns the capital of four small pillars placed on the top of the building at the different angles.

Mausoleum at Muddukayray.

The most remarkable modern building is the mausoleum of Veerajender the late Rajah; within its walls repose the remains of this once active spirit, and his Ranee or Queen. It was erected by him but a short time

before his death, destined to be the monument of his posterity, this shrine has been transformed into a religious temple, and Veerajender canonized as a saint, or rather enrolled amongst the gods, has become the chief divinity, and is worshipped by his former subjects—admiration of his undaunted courage, and the remembrance of the gallantry, and conduct, that delivered them from a fierce and unrelenting enemy appears to have triumphed over the recollection of the various atrocities that marked the close of his life; indeed, from the character of Veerajender we should be inclined to infer, that he owed this apotheosis more to the clinquant and imposing qualities of the warrior, than the less brilliant, but more useful virtues of the ruler. The anniversary of this fane is celebrated at the festival of the Sivaratree occurring generally in February, on this occasion a vast number of people collect to pay their worship to its deity, principally jungums; the extensive charity liberally dispensed in such instances may be supposed to quicken the zeal of those devotees.

The mausoleum is situated at the northern extremity of the petta, and enclosed by a high embankment; it is a square building, the length of the sides being about 50 feet, it is about 60 high and surmounted by a small neat dome, at the 4 angles rises a similar number of columns having the figure of a Busswa on each. The exterior is plain and neat; it is extremely well built, and kept with the utmost care and attention.

Palace.

The next remarkable building is the Palace; a structure of recent date, being erected by the present Prince; it is within the fort, of which it occupies a large part. This edifice consists of two stories, is lofty and spacious, and like most Hindoo buildings of this nature, covers a great extent of area. It is of a square form having a small court in the centre; three of its sides present nearly a blank space varied only by a few apertures to admit the (air for they cannot be called windows). Considerable innovations however have been made in the architecture of the country with regard to the face of this structure, which is quite after the European fashion, presenting a very handsome front of about 110 feet long; a range of arches runs along the whole extent of the bottom part, the upper having a contiguous row of windows shut in by glass sashes and venetian blinds, a balustrade surmounting the whole. The front rooms are quite after the European manner, and visitors



are received in an apartment the architecture and furniture of which differ in nothing from an English one; as to the interior arrangements they are doubtless more consonant to native ideas of excellence and comfort. The whole however is an exceedingly stately fabric presenting something greatly superior to most Hindoo palaces, being conceived and executed, after a much better taste than those Royal residences generally are; it is of brick and altogether finished with equal solidity, as elegance.

The house for the reception of travellers is but a short distance from the Fort, and in the midst of a plantation of Orange trees, it owes its erection to the gratitude of the late Rajah, whose attachment to the English is so well known. It is a handsome building consisting of two stories; the form that of a centre with four turrets at the angles; it is in every way after the European model, both as to architecture, and furniture, nor has any thing been forgotten necessary to render it quite complete in those particulars; a regular establishment of servants is kept up expressly for it, and every care taken to anticipate the wants, and provide for the convenience of the traveller, who is treated with the most liberal hospitality.

The few buildings that have just been noticed are the only ones at all deserving remark.

Mines, Minerals, Manufactures. Mines are generally found in hilly countries, as such, Codugu it is probable contains some, a knowledge of which might perhaps reward the search of the curious, at present its minerals lie undisturbed in the bosom of the mountains that give them birth, their contents are unknown; it may be observed however that it is in those of a barren and sterile nature, that they are to be looked for, with greater certainty of success. All the metal utensils requisite for domestic or agricultural purposes are imported, and the inhabitants deny the existence of any mines, but such an assurance would deserve little credit, as, if they thought it was their interest to conceal them, no nice regard to truth could be expected. The soil however has not been observed to contain metallic particles, nor have any other circumstances that would indicate them been perceived. However questionable the existence of mines may be, there is every reason to believe none are worked.

## Manufactures.

No town in Codugu can be said to be the seat of any manufacture, the feelings and habits of the aboriginies quite unfit them for inert and sedentary pursuits; manufacturing industry has made no progress amongst any part of the population. The labours of the inhabitants are directed to the business of agriculture, and they exchange the products of their soil for the manufactures of their neighbours.

Soil of the high grounds in Codugu proper.

From the situation and nature of the country a great variety in its soil necessarily will be inferred.

Trees indicating in some measure the nature, and quality of the soil on which they grow, that of Codugu proper covered by one continued forest must be considered of singular fertility; the soil of most of the low hills, and slopes is of a reddish firm earth with a slight gravelly mixture (occasionally a little stony) the luxuriant foliage and stature of the trees they produce is a sufficient assurance of their fecundity.

Of the large hills.

The large hills including the ridge forming the summits of the ghauts, the Brumagerray mountains, Cotay Betta and a few others are not so fortunate in this particular. Ascending from their foot, the soil becomes gradually more meagre, rough and stony as the top is approached, the summits of the greater part of these hills are devoid of wood, though not destitute of verdure, as a luxuriant pasturage (the resort of numberless wild animals) succeeds to the deep woods that encompass their base. The soil of these hills can in no place be called rocky, blocks of coarse granite are occasionally to be met with on them, but those immense tables of brick or indurated stone that forms so great an ingredient in the composition of the ghauts of the more northern parts, particularly those of Soanda, do not enter into the formation of that portion of them coming within this territory.

Of the high grounds in Yailsowra.

The soil of the higher grounds of Yailsowra consists of a thin stratum of gravelly earth, barren and arid, producing only a few dwarfish shrubs, and a tall thin grass.



The western face  
of the ghauts.

Descending westward from the summit of these mountains, the soil undergoes some change, becoming of a darker hue and rather more permeable, it is highly fertile, nourishing a forest of immense stature. The stratum of earth is everywhere deep, and continues so without intermission to the foot of these hills.\*

Soil of the valleys  
in Codugu proper.

The soil of the valleys in the upper country is liable to some varieties, that, of the northern and western parts of Codugu proper is a rich dark reddish clay quite devoid of any stony mixture, and remarkable for its powers of production; that of the more southern parts, particularly the Kigguttnaad talook, is of a darker color, sometimes approaching to black, having a slight mixture of sand, and nearly as remarkable for the force, and activity of its vegetation. The singular fecundity for which these parts are remarkable, may in some measure be attributed to the variety of rich vegetable matter, brought down by the torrents from the high grounds in the vicinity of the cultivated lands; to this annual supply may be added their situation, which, generally enclashed in the midst of thick forests, are partially shaded by the trees which fringe their borders, which produce a temperature, and retain a moisture, eminently favorable to vegetation; the abundance of water consequent to a mountainous country producing a constant humidity, the lands retain their fertility undiminished, and crops are seldom known to fail.

In. Yailsowra, and  
Nunjarajputtun.

The cultivated lands of Yailsowra possess none of the fertility which characterizes that of the interior, the little barren slopes that border them are incapable of supporting any vegetable substance that could invigorate their soil, which is comparatively superficial and poor, when contrasted with that of the more woody districts; it partakes however, in common with the neighbouring country of Mysore of an ordinary share of fertility.

The above character is, in a great measure, applicable to Nun-

\* There are no appearance of marine productions in the soil of the ghauts, nor indeed, in any part of the lower districts, that has come under my observation.

jarajputtun: towards this part of the eastern boundary, the luxuriance of the forest gradually ceases, and leaves this district champagne. The soil consists generally of a light friable earth, the aspect is similar to that of Mysore, and it is only calculated to produce the dry grain common to that country.

Soil below the  
ghauts.

The soil below the ghauts is greatly diversified, but as a general character is infinitely less fertile, and more superficial than that of the upper country.

Of the high  
grounds.

Quitting the foot of the ghauts and advancing westward, the deep stratum of earth that covered their sides gives way to the lighter and more stony soil of Sooleeay. The high grounds in these districts have a great mixture of the brick stone rock in their composition (it occasionally appearing in large naked masses) and are everywhere covered with but a thin stratum of earth; the forests of those districts though thick, want the stature and luxuriance of the woods of Codugu proper, they chiefly consist of trees, the native of a meagre soil. Leaving Sooleeay and approaching the sea these woods become still scantier, and the trees and shrubs dwarfish, and stunted; the high swelling slopes assume the form of an elevated table whose surface presents nothing, but one vast sheet of brick stone rock, mostly destitute of soil, except the little that occupies the small crevices of it; this thin coat is rarely of sufficient depth to mature trees of any size.

Of the valleys.

The soil of the valleys resemble that of the more elevated parts, but is more rich, and loamy; that of the rice lands throughout the whole of the lower districts is remarked as decreasing in fertility as it recedes from the sea, the more western parts are consequently the best; the soil of the cultivated valleys of Poottoor is a light reddish colored earth of some depth, having however a substratum of the laterite, that of the valleys of Sooleeay is more superficial and permeable, it is however favorable for the growth of aracca plantations.

Crops above  
the ghauts.

In Codugu proper, rice is yielded in such lavish abundance by the first crop grown during the periodical rains, as generally speaking, to render a



second quite unnecessary, particular spots being favorable to artificial irrigation may occasionally be cultivated a second time, but this is by no means common, and the instances are too few to render a particular exception necessary.

In Yailsowra. In Yailsowra the narrow valleys in which the cultivation is formed are terraced to a considerable extent to admit of its being more enlarged, but it is the lower parts only that have a sufficient supply of water to admit of a second crop, which is always limited in extent, and scanty in produce.

Crops below the ghauts. The whole of the rice lands below the ghauts yield two crops in the year, and sometimes even three; the steep by which they are enclosed affording abundance of water for irrigation, the second crop of rice is not unfrequently followed by one of tobacco, dry grain, or some of the various leguminous plants common here.

Return in fold. Circumstances would not admit of obtaining all those minute particulars, and statements, from which conclusive deduction could be drawn, as to the average return in fold, throughout the country. The observations, that have been made however enable it to be stated with confidence, that in most parts of Codugu proper (particularly the most woody) the general increase may be from 40 to 60 fold, and in extraordinary seasons, the average may approach much nearer a hundred; it would be difficult to imagine a more abundant return, or more highly favored soil.\* In Yailsowra they generally reap on the best lands only from 20 to 25 fold, and from 15 to 20 on the betta fields. In Poottoor and about the most western parts, the quality of the ground some times varies, but the average (on the first sort of land) scarcely ever exceeds

\* It is stated by Colonel Mahony (sometime resident in Codugu) that "an ordinary soil is said to make a return of 50 fold, increasing it as it improves, it reaches to the amount of a 100 in which latter description the country abounds," I am inclined to believe that this return is much overated. Malabar only yields from 10 to 30. The best arable land in England gives from 10 to 30. Scotland only from 10 to 15. The remarkable fertility of Egypt does not often exceed 50 fold.

25 or 28; approaching the ghauts it gradually becomes more scanty, and in Umr and Sooleeay it only re-pays the labor of cultivation by a return on the best lands of from 10 to 12, and often still less.

Productions of Codugu proper. The chief product of both the upper and lower country a rice; yielded in superfluity it is the principal export, particularly from Codugu proper.

Though well fitted from the soil of the higher grounds, (which has sufficient depth, and not too great a declivity to admit of cultivation) there is in the upper country, but a comparatively small portion of dry grain produced. Raggy so well adapted to the hilly country from the easiness of its culture, is grown only in comparatively small quantities amongst these mountains; tobacco, nuts, ellu and yerrinda (*Palma Christi*) plants cultivated for the purpose of making oil, some little huruli (or horse gram) are grown not however in sufficient abundance to prevent the necessity of importation.

Of Yailsowra and Nunjarajputtun. Yailsowra principally produces rice; in it however, and Nunjarajputtun, are grown all the dry grains common to Mysore, (wheat is said to be produced in small quantities, but I have never met any) but by no means sufficient to supply the interior. The best tobacco comes from those districts, that of the more woody parts has the character of being indifferent. Yailsowra also produces a very little sugar-cane. Hemp may be added to the products of the upper country, but it is only grown on the worst soil, and in very small quantities.

Vegetable productions are grown in great variety and abundance, the upper country appears particularly favorable to the productions of esculent plants, also fruits, flowers, shrubs, and garden stuffs of every kind, indeed, the temperature and soil of the higher parts, seems well adapted to mature those of a colder climate. Of the fruits, the most remarkable are oranges of different descriptions, all of an excellent quality, they are exceedingly common, as are also limes of various species, citron of an immense size,



pine apples,\* pomegranates, pumplemose, jack, plantains, all in abundance, and of a most luxuriant growth; the other fruits common in this part of India are in profusion, and of a good quality. Turmeric, ginger, a little mustard, and the numerous other kind of condiments used by the natives are also found. Peas, cabbage, potatoes and other European vegetables thrive well, but are not in common use. The betel vine is found in the vicinity of all the ryots houses, the leaf however, is said to be comparatively coarse, much is imported.

Of the forests.

Sandalwood and cardamoms are the most valuable of the spontaneous productions; a more particular account of these articles will be subsequently given, exclusive of them the jungle yields excellent timber, a species of wild nutmeg of good quality, the wild olive, cassia,† gum trees in abundance, wild yams of great size, quantities of wild honey are found, the wax of which belongs to the Circar, and is of some value, the bees producing it are of several species.

The products of these forests extend to a much larger list than is here given, it would however require a long residence amongst them to enumerate them with precision.

\* They may be said to grow almost in a wild state, the plants merely requiring to be placed in the ground, and thriving without much further attention, they renew themselves by a succession of fresh shoots, given out from the older ones, as they decay, they soon acquire new roots, and a bed of those plants has been known to multiply, and furnish fruit regularly during a period of 18 years; they thrive but in rather elevated and dry situations—those grown in Codugu are large, but loosening the ground immediately at the root would increase their natural luxuriance; some of the plants have been known to attain 6 feet in height, a stature every way favorable to the excellence of the fruit.

† The Cassia Lignia or *Laurus*, *Cassia* is very common throughout the upper country, though made but little, if any use of; the process by which this article is fitted for sale, seems not generally known, or it must have long since been numbered amongst the exports. It is sometimes thus prepared in the neighbouring countries:—the plants when a year old are pruned till only the lower part of the tree remains, fresh shoots spring from the stump which are removed (when they attain the age of 3 years) at the season when the sap has ascended to the summit, the bark is stripped off when they are pliant, and the exterior surface carefully scraped, it is then formed into long rolls and exposed till quite dry to the influence of the sun; these operations may be repeated twice a year, that is in July and February the most favorable time for taking the bark.

Below the ghauts.

In these districts, next to rice, suparee is the principal production. Plantations of it are numerous in Pungee, and parts of Sooleeay and Bullaree; the upper country is entirely supplied with this article from below the ghauts from which is also sent a small quantity of khut (*Terra Japonica*) rice is principally sent to Mangalore. Raggy is cultivated on the hills in Sooleeay to some extent, bearing however no proportion to the quantity of rice grown; tobacco, hurali, some hemp, yerrinda and various kind of pulse are grown on the rice lands, after the second crop has been taken from them; neither vegetables, or fruits are so good, or in such quantities as in the upper country; of the more precious articles pepper is the chief, if indeed, not the principal one; it is found towards the foot of the ghaut that skirt the Sooleeay district; it is also cultivated in the aracca gardens, amongst the products of which betel nut may likewise be reckoned as a principal one. The cocoanut so extremely useful in all its parts is very general throughout the country situated below the ghauts, sugar-cane is also cultivated there, but the quantity of jaggary made is not considerable.

The above enumeration comprises the most prominent productions of its soil, the account given of its manufactures will show, that those of its industry may be contained in a much more limited catalogue.

Agriculture.

The agriculture of Codugu as will readily be supposed is much in the same state as that common throughout most parts of India, a system of rural economy formed at a remote period has been transmitted for ages unchanged, and the cultivator, attached to ancient practices, views with dislike any attempts to innovations.

But an imperfect sketch can here be offered of the agriculture of Codugu. The subject though not connected with anything calculated to excite apprehension, shared nearly the same fate as all others. The infant stage of its advancement however renders it perhaps of but little value as a lesson of experience, though a knowledge of it may be desirable as a statement of facts.



Of the upper country. The industry of the inhabitants of the upper country, is directed almost exclusively to the cultivation of rice, it is grown only in the low narrow valleys that intervene between the high grounds and which appear every way well calculated for its production.

**Lands.** These valleys are generally from  $\frac{1}{4}$  to  $\frac{1}{2}$  a mile in breadth in the wider parts, becoming however, exceedingly narrow as they run amongst the higher grounds, they are terraced with industry, and their area is always sufficiently large to admit of ploughs being used. The lands into which these valleys are formed are known under two denominations.

**First Bylgudday.** This is understood as the lowest part of the valley which at most seasons retains some humidity, being occupied by springs, or having a rivulet running through it.

**Second Makigudday** The fields known under this term are those terraced up the sides of the neighbouring slopes, they depend solely on the supply of rain during the wet season for the success of the crops grown on them; the former is capable from its position of being assisted by artificial irrigation.

Though the upper county throughout produces rice in the utmost luxuriance, the more central parts may be considered as yielding the most abundant crops, the plants here attaining the greatest size and substance; towards the north the quantity of rain that falls is said to be too great in the southern districts, though the valleys are larger, and more level, the soil is comparatively of an inferior quality.

**Ploughing.** Husbandry as practised amongst these hills is by no means operose or intricate, the first operation of it which is termed "Hoanara" begins in Yeddimar when the ploughing commences, the extreme inefficiency of the instruments which enter scarcely beyond the surface, renders a frequent repetition of the operation necessary, so that the fields generally receive from 6 to 7 ploughings before the soil has been sufficiently prepared. The first 3 of these take place when the ground is in a dry state, the

remainder after a considerable portion of rain is fallen, and when they are dissolved into a soft muddy consistency, no particular period, is considered necessary to intervene between the various ploughings, which are made according to the state of the weather and convenience of the cultivator. The whole operation of ploughing being over, the field is smoothed once or twice with the pala when it is prepared for the reception of the plants.

**Manure.** The amelioration of the soil seems to be an object of some solicitude. Manure is carefully collected, and distributed; it consists principally of all the excrementitious matter of the domestic animals absorbed by the straw and dry leaves with which they are littered, to this is added the soil, and refuse of the house; and indeed, scarce any kind of manure seems to be objectionable. Cattle are confined during the night, and the very hot parts of the day in temporary folds on the lands for the purpose of enriching the soil. In some parts of the lower districts, particularly those occupying the base of the ghauts, the ear of the grain is alone removed leaving the whole of the straw\* as stubble, partly for the food of the cattle and partly as manure. The manure is incorporated with the soil in the first and second ploughing, being previously spread in small heaps, over the field; when composed of a mixture of dry branches and leaves, it is burnt on the lands, and the ashes thus procured distributed equally over them.

There are three kinds† of rice cultivated. Doda Species of rice. betta, this is a large grain, and it is that in gene-

\* It is a curious circumstance that the houses below the ghauts are never thatched with straw being always covered by the long grass growing in great abundance on the higher grounds.

† It has been an object of enquiry amongst the curious to learn from whence originated the various grains, and if they are now seen in a wild state. This latter question would seem in some measure answered by the circumstance of wild rice being common in some parts of Codugu. In Kigguttnaad many of the smaller valleys are perfect swamps of considerable depth, the texture of the ground is too much broken to admit of the plough, and the general testimony of the Natives would lead to the belief that they never had been cultivated; in the midst of the rank herbage, that covers these swamps small crops of wild rice is frequently seen, the stocks are high, but excessively thin, and the grain very diminutive; the ear is bearded like the barley; when boiled it is of a rather bluish tinge, and not marked by any particular flavour. It is called paundawar butta or the rice of paundoo, and only eaten by the very lowest classes.



ral use with the majority of the inhabitants, and what is principally exported. Dunna betta a small and finer kind; and kissara a red species are also shown, but both in very small quantities.

The whole of the rice ground in the upper country is transplanted, but the management anterior to this process, that is rearing the seedlings is as follows:—by legudday fields are chosen for the reception of the seed, their preparation is after the manner as stated above with but little difference, a greater portion of manure, however, being generally allowed. The sowing commences in 'Caudear' or as near that period as the state of the weather will permit, but the season of sowing influenced by circumstances, sometimes extends to a month longer. The seed is of course sown broad cast and very thick; it is prepared by being steeped in water for a short time, and then placed in a heap, it is kept damp for three days; when beginning to vegetate it is prepared for sowing. The fields being now in a muddy state, it sinks for a short way into the soil which is only kept sufficiently moist, water being but scantily supplied till it has taken root, when the quantity is gradually increased, the seedling sown germinates, and at the end of 35 or 40 days it attains nearly a foot in height and is then fit for transplantation.

The period of transplantation begins in 'Audry' and ends in 'Kuckayray.' On the removal of the seedlings they are transplanted over the whole space intended for the cultivation of rice, this mode is considered as best adapted to resist the violence of the rain and in other points of view is reckoned to have advantages, and seems particularly calculated for a rich soil. The transplantation is managed with great care, 6 or 7 stocks connected together from one plant—these plants are arranged in regular lines and have a space of about 6 inches between the roots of each, this admits the air, and heat, and gives them full room for all the luxuriance of vegetation. The holes in which they are placed are readily made with the finger in the damp earth, and the roots soon become settled; grounds thus planted are found to produce com-

paratively few weeds, and what there are, can be easily removed. Immediately after transplantation, the field (for a short time only being kept damp) is inundated, and continued overflowed with from 6 to 7 inches of water till within 8 or 10 days before harvest, the plant during this time being in a state of semi-immersion.

The fields undergo only one weeding; this takes place generally six weeks after transplantation; an abundant supply of water retards their growth they are removed by manual labour. The crops generally are not liable to miscarriage or sickliness; in the early part of their growth they are subject to the attacks of several species of worms, to extirpate which all the powers of charms and spells are called into action, but are not always found of sufficient efficacy. They are also open to the depredation of mountain mice, and attract flocks of graminivorous birds; both these evils however are readily guarded against.

This is termed Beullay, the crop of rice sown here generally takes full 5 months before arriving at maturity. It ripens in the more open parts at the commencement of December, perhaps a short time sooner, but in the deep and sheltered valleys, not till the end of that month, or till the beginning of January; when cut, it remains two or three days on the field to dry, and is then trodden out of the ear by bullocks. The grain intended for seed is carefully preserved, that for consumption after having been boiled (which facilitates their removal) the husks are beaten off, the rice is kept in large baskets having the exterior covered with a coating made of a mixture of cow-dung and mud; the crop is reaped with the ordinary sickle.

The straw answers numerous domestic purposes, thatching, food for the cattle, &c. It grows to a great height, generally reaching 4 feet.

The cultivation of Yailsowra differs but in few particulars from what has just been stated. Transplanting is not generally practiced, the seed is sown broad cast in most instances. The Coorg is however also



used. In this latter case, the fields are always ploughed in a dry state, and the seed sown on them requires no preparation. The pala closely following the drill, covers the seed as it falls from it.

Of Nunjarajaputtun. Nunjarajaputtun is the small district lying along the western banks of the Cauvery, it is the only part that produces any abundance of dry grain. In it are cultivated those common in the open country; raggy, auvaray, tovaray, udu, huruli, and ellu &c. The ordinary management observed in rearing these grains differs in nothing from the process common in Mysore, which is so well known as not here to require a repetition of it.

The Hills are subject to coomary cultivation, of however no very considerable extent. Raggy is the only grain sown on them, this cultivation is performed by the lowest castes generally the periodical servants of the aborigines, who themselves never assist in it, their labors being exclusively confined to the lower grounds. The course of management observed in this species of husbandry is subject to few variations; the detail of it will not here require any particular mention, it exactly resembles that prevailing below the ghauts.

Cultivation below the ghauts. The lands of the lower district on which rice is cultivated are divided into three kinds:—

Lands. FIRST BYLOO.—This is the lowest part of the valley and capable of being artificially irrigated, they are the most valuable, yielding two and frequently three crops during the year; they form a considerable portion of the cultivated lands.

SECOND MAJULA.—The fields thus denominated are situated higher up than the former, are capable of being partially irrigated in the event of a failure of the annual supply of rain, but not to the extent of producing two crops—one, if the wet season be at all favorable, is looked on as certain.

THIRD BETTA.—Are situated on the higher parts of the slope connected with the lands just mentioned, the success of the crops

sown on them is very precarious as they are not capable of being in any way assisted by artificial irrigation.

In the country below the ghauts, from 7 to 9 ploughings are necessary, the period for their commencement and close, is fixed within rather wide limits, depending on the season, and nature of the intended crop; the operations of husbandry however may be said to commence by the 15th of Puggoo (latter end of April) and end at the close of Baysha (15th June) the first and second ploughing but imperfectly opens the ground; no particular period is allowed to pass between the different repetitions of this operation, it being regulated by accident, the nature of the weather, &c. At the close of the third ploughing the banks of the fields are rendered capable of retaining the water; and after the fourth and fifth arrotion it is soft and muddy; it is again twice ploughed, and carefully smoothed by the pala, (or plank) after this it is again inundated, and the water being allowed to remain a short time, it receives the last ploughing and is finally smoothed by the above instrument. The preparation of the majula differs in few particulars from the above, the labor only being somewhat more operose. The betta or highest fields are managed after a similar manner, the first three ploughings are in a dry state, and as the season is favorable they receive in succession six further ones, the operation of smoothing them taking place nearly as often.

Every kind is collected, the cattle are littered Manure. every evening with fresh leaves which are removed every 15 or 20 days, this is further increased by the soil of the house. Bushes and dry leaves of every kind are collected, and burnt on the fields.

Sowing. The seed is in general sown broad cast, transplantation is however sometimes adopted for the byloo and majula lands, but the betta fields requiring to be sooner sown, are unfit for this species of cultivation; the preparation of the seed sown for transplanting differs in but few instances, it is mixed with a portion of cow-dung and water, and left for three days to vegetate, being kept for this time always in a damp state; the byloo land is generally chosen to rear the seedlings, it is sown broad cast, and exceedingly



thick, the field is inundated, but the water drawn off at intervals to promote vegetation, but as the plants grow up they are always kept a third part covered with it; they are capable of being transplanted after the 30th or 40th day; this mode on the whole is considered expensive and laborious, and is only practiced where the number of labourers are numerous. When the fields are sown broad cast, the seed is prepared in the manner similar to that just mentioned, except when their positions are particularly swampy; thus situated the seed is sown dry. Seed intended for transplantation is generally sown by the 20th of Baysha and transplanted by the 10th or 20th of Catiallu.

Weeding. Takes place in the month of Attee, it is an expensive operation, and not often repeated, a scarcity of water never fails to produce a great number of them, (weeds) they do not grow to any considerable size, a species of creeper of the grass kind is most destructive and troublesome.

Crops. It may be generally said that more than  $\frac{2}{3}$  of the fields below the ghauts yield two crops in the season; the majula, though not the whole of it, gives one of paddy, and another of dry grain: the byloogudday two of rice, the last crop is greatly inferior to the first.

Harvest. Harvest is here considerably earlier than above the ghauts. It generally takes place about the latter end of October.

Coomaray cultivation. A considerable portion of the hills of the lower districts are subject to this cultivation, it is mostly practiced by the lower Mahratta castes, some hill rice is also grown by them; the preparation of the ground in both instances is something similar. This species of cultivation (raggy) though not immediately confined to these districts is more common in them than the country above, this arises more from the nature of the inhabitants than the soil of the hills, which is extremely well adapted to it.

Hill rice.

The soil favorable to this culture is a reddish mould with a small mixture of pebbles; the declivity of the hill must not be great, as in such a case the violent rains here would wash away the earth. Those hills covered with a thick forest of ancient growth are unfavorable, a jungle of moderate density, and if 13 or 14 years old, unites every desirable requisite.

The agricultural operations of this part of rural economy are few and simple: a favorable spot is fixed on, the jungle is cut between Durmiar and Malliar, and burnt in Coombiar, it is surrounded by a strong hedge, and the business of sowing commences in Yeddimiar, this is done broad cast, after which the surface is superficially dug up by the kokay, it undergoes two slight weeding during the three succeeding months, it ripens about the sixth, and is cut in kunniar. A second crop is rarely sown the following year when however, ellu, huruli, tovaray, &c, are grown in its place, the latter is frequently scattered throughout the rice crop, and occasionally sown in a straight line to answer the purpose of a boundary between the fields of different possessors. Hill rice gives a return of about 10 fold, the grain is small and of a reddish color.

This cultivation is precarious, and the husbandman cannot look with confidence to the re-payment of his labor.

Raggy. The preparation for the raggy or natchenny cultivation, as has been said is similar with the former, and differs but little as to the situation or soil required. A period of from 7 to 12 years is allowed to elapse generally before ground once cultivated, again becomes useful; such a long one would seem unnecessary, but the natives conceive a large quantity of wood must be burnt to produce fertility: its return in fold, in favorable seasons, may be from two to three hundred. It may be remarked that raggy in this country is more a subsidiary cultivation than one exclusively followed. It is in no instance the general food of any part of the inhabitants.

Areca plantations. The culture of the areca nut forms an important part of the husbandry below the ghauts. This beautiful and useful palm will not thrive in the upper



country; no very detailed account will be required, as to the formation and management of the areca plantations, the gardens are only made in the hilly grounds (the small sheltered glens of which they occupy); they require a red and rather gravelly soil, any change in this particular affecting sensibly the quality of the nut; a constant supply of water is one of the first requisites in the formation of the areca garden. This palm begins to bear about the 9th or 10th year, and continues to yield fruit for sometimes 40 years. The harvest occurs in November; pepper is grown in all the areca plantations in which are also a number of fruit trees.

Character of the cultivation, obstacles, &c. It will be seen that the general system together with the minutiae it embraces, is not dissimilar from the common course observed in the neighbouring countries; those prejudices in favor of old habits, and that aversion to innovation of any kind which forms so remarkable a feature in the character of the Hindoo, have here lost none of their force, but continue to present an effectual resistance to all improvements, which science or experience might suggest, and are the chief obstacles which agriculture has to encounter. Weak and inefficient instruments of husbandry, want of wheel carriage, and the numberless wild animals to whose attacks the crops are liable, are impediments of minor consideration. The want of capital must necessarily retard the progress of improvement, but above all, that contented indolence and apathy which renders it the first aim of the Farmer, (and few Indian ones aspire beyond it) to secure a subsistence, rather than a competence, necessarily opposes the introduction of any change from the old routine, as that sanctioned by the experience of their forefathers is found capable of supplying their few wants.

Though the course of management adopted is prescribed by prejudice, yet, when the rudeness of the implements are considered, it is a subject of wonder that the cultivation is not more imperfect.

The rich qualities of their lands, for whose valuable properties however, they are entirely indebted to nature, recompenses for the imperfections of their system of agriculture. It must not be inferred how-

ever that the Codugu farmer exhibits any remarkable want of skill in this particular, he is by no means inferior to his neighbours and possessing an equal if not greater share of industry, he derives considerable advantages from his central situation; living in the midst of his fields, he is able to bestow on them, a more careful attention and superintendence, than the husbandman of the open country, who, residing in villages, has frequently to go some distance to his lands.

The general system observed would doubtless admit of great amelioration, the fertility of the arable lands below the ghauts is dissipated by constant tillage, one crop is scarcely taken off, before another is sown, and though the lands of the upper country are not subject to a similar course of exhaustion, better means than those adopted could be pursued to augment their fertility (already great) and call it more effectually into action. The benefits of fallow are unknown, and consequently this is never practised, no variety of crop (in Codugu proper) is grown on the cultivated lands, nor indeed, is the climate or soil well adapted to any other than rice,

The agriculture of Codugu, and it may be said that of the lower districts extends to no variety of production; rice is the staple one, of which much more is grown, than can be consumed: the low lands of Codugu proper yield as has been observed no other article; they seem unfavorable to the growth of sugar-cane, which is not often met with; this is produced in Yailsowra, but the cultivation of it is limited, it is more extensive below the ghauts, but even there is not grown upon a large scale. Tobacco is grown in the upper country for domestic use, and is inferior to that of Mysore; below the ghauts it is in great abundance, and some of it is exported. This plant is sown in small beds richly manured, it is subsequently transplanted, and requires some care; it is grown always on the low slopes close to the houses of the ryots; a little Shanapu, or hemp is also grown, principally for its fibres, from which ropes are manufactured, but the natives are said to have the pernicious habit of eating its leaves, remarkable for their intoxicating quality. A small quantity of wheat is said to be grown in the more open parts. The fruits common to the country have already been mentioned, and there is every appearance of probability, that many of those of Europe might be introduced with success; all idea of experiments however



is foreign to a native. Ginger, and turmeric require a rich soil, and much care, the culture of them is limited. All cucurbitaceous plants thrive with uncommon luxuriance; as to medicinal or vulnerary herbs, none of any particular merit have come within my observation. It will not be necessary to enumerate the various other vegetable productions commonly known, they are the same as those general throughout the surrounding countries, being however of a larger growth.

The agricultural instruments common in Codugu are exceedingly few, and those of the rudest kind.

From the make of the plough it will be seen that it is but ill calculated for the office to which it is applied, and to its extreme inefficiency must be attributed the necessity that exists of so frequently repeating the operation which it performs. One person only attends a plough, the bullocks draw double, and are coupled by a yoke on which the beam rests, and to which it is fastened by a cord. The harness, yoke, &c., are all equally wretched with the instrument itself, whose extreme cost does not exceed one Rupee; the value of the oxen attached to it however may reach to that of 5 Pagodas.

The tahway or pally is generally an ordinary plank in which iron staples are fixed, two cords fastened in them, connected with the yoke by which the oxen are coupled, complete this rude instrument; it is made to answer all the purposes of the harrow. The driver standing on it adds to the efficacy of the operation, and after repeatedly passing over the surface it is enabled to pulverize, and smooth the lands.

The Codugus have no farming utensils peculiar to themselves; the goodalee or hoe, also the cutty or sickle common in the neighbouring countries are in general use here, the former performs all the offices of the spade; the latter equally answering a variety of purposes.

Carts of any description are unknown in Codugu. Baskets are used when it is required to transport earth, or manure from one place to another.

The primitive and wretched state in which we find the agricultural instruments is perhaps more attributable to the rude simplicity which characterizes the Hindoo, than any inability or want of means to improve them.

*Register of the Villages in the Codugu Survey, showing the particular Bearing and Distances of each from the nearest Trigonometrical Station.*

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.			Miles.	Furlongs.	Yards.
	YAILSOWRA TALOOK, CONTAINS 12 HOBELYS.							
	Coadley Hobely ...							
	Coodooloor do ...							
	Hoolacode do ...							
	Bembulloor do ...							
	Bulla do ...							
	Connagaul do ...							
	Hanugoad do ...							
	Doadhully Gowdhully Hobely ...							
	Nerrootod do ...							
	Menesedda do ...							
	Mooloor do ...							
	Gunnagoor do ...							
Coadley Hobely.	Humpapoor	Maullimby.	N. W.	8	52	11	3	192
	Santapoor	do.	"	13	0	10	6	160
	Kella Coadley	do.	"	4	52	10	6	190
	Dood Coadley	do.	"	5	45	10	4	0
	Arrakunhully	do.	"	9	15	10	3	0
	Kusoor	do.	"	13	30	10	3	0
	Hosohully	do.	"	13	30	10	0	20
	Kulhully	do.	"	13	15	9	4	55
	Mullypoora	do.	"	154	52	9	3	0
	Kirra Coadley	do.	N.	0	0	9	1	110
	Kirugunhully	do.	N. W.	5	0	9	1	110
	Nandypoor	do.	"	8	22	9	0	38
	Mulhully	do.	"	5	45	8	3	7
	Kathay	do.	"	13	30	8	5	107
	Ichillapoor	do.	"	9	45	8	6	55
	Oorgooty	do.	"	14	30	7	5	55
	Raminhully	do.	"	3	37	8	5	110



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The agricultural instruments common in Codugu are exceedingly few, and those of the rudest kind.

From the make of the plough it will be seen that it is but ill calculated for the office to which it is applied, and to its extreme inefficiency must be attributed the necessity that exists of so frequently repeating the operation which it performs. One person only attends a plough, the bullocks draw double, and are coupled by a yoke on which the beam rests, and to which it is fastened by a cord. The harness, yoke, &c., are all equally wretched with the instrument itself, whose extreme cost does not exceed one Rupee; the value of the oxen attached to it however may reach to that of 5 Pagodas.

The tahway or pally is generally an ordinary plank in which iron staples are fixed, two cords fastened in them, connected with the yoke by which the oxen are coupled, complete this rude instrument; it is made to answer all the purposes of the harrow. The driver standing on it adds to the efficacy of the operation, and after repeatedly passing over the surface it is enabled to pulverize, and smooth the lands.

The Codugus have no farming utensils peculiar to themselves; the goodalee or hoe, also the cutty or sickle common in the neighbouring countries are in general use here, the former performs all the offices of the spade; the latter equally answering a variety of purposes.

Carts of any description are unknown in Codugu. Baskets are used when it is required to transport earth, or manure from one place to another.

The primitive and wretched state in which we find the agricultural instruments is perhaps more attributable to the rude simplicity which characterizes the Hindoo, than any inability or want of means to improve them.

*Register of the Villages in the Codugu Survey, showing the particular Bearing and Distances of each from the nearest Trigonometrical Station.*

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.			Miles.	Furlongs.	Yards.
	YAILSOWRA TALOOK, CONTAINS 12 HOBELYS.							
	Coadley Hobely ...							
	Coodooloor do ...							
	Hoolacode do ...							
	Bembulloor do ...							
	Bulla do ...							
	Connagaul do ...							
	Hanugoad do ...							
	Doadhully Gowdhully Hobely ...							
	Nerrootod do ...							
	Menesedda do ...							
	Mooloor do ...							
	Gunnagoor do ...							
Coadley Hobely.	Humpapoor	Maullimby.	N. W.	8	52	11	3	192
	Santapoor	do.	"	13	0	10	6	160
	Kella Coadley	do.	"	4	52	10	6	190
	Dood Coadley	do.	"	5	45	10	4	0
	Arrakunhully	do.	"	9	15	10	3	0
	Kussoor	do.	"	13	30	10	3	0
	Hosohully	do.	"	13	30	10	0	20
	Kulhully	do.	"	13	15	9	4	55
	Mullypoora	do.	"	154	52	9	3	0
	Kirra Coadley	do.	N.	0	0	9	1	110
	Kirugunhully	do.	N. W.	5	0	9	1	110
	Nandypoor	do.	"	8	22	9	0	38
	Mulhully	do.	"	5	45	8	3	7
	Kathay	do.	"	13	30	8	5	107
	Ichillapoor	do.	"	9	45	8	6	55
	Oorgooty	do.	"	14	30	7	5	55
	Raminhully	do.	"	3	37	8	5	110



Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from which observed.	Bearings.			Miles.	Furlongs.	Yards.
Coodooloor Hobely.	Coodooloor ...	Maullimby.	N. E.	9	30	8	0	210
	Niergeonda ...	do.	"	4	52	9	4	7
	Conaginhully ...	do.	"	11	37	8	6	82
	Buswanhully ...	do.	"	9	30	8	7	110
	Honaycoday ...	do.	"	8	37	9	2	180
	Ippugullulay ...	do.	"	12	0	9	6	55
	Cuttaypoora ...	do.	"	17	37	9	7	0
	Angullay ...	do.	"	27	0	9	7	190
	Nellawaugulloo ...	do.	"	18	52	8	2	137
	Chick Bundara ...	do.	"	18	7	7	6	162
	Dooda Bundara ...	do.	"	13	52	7	3	55
	Hemmaney ...	do.	"	9	22	7	2	210
	Coragal ...	do.	"	7	0	7	2	60
	Bairagoola ...	do.	N. W.	2	0	8	0	192
	Dood Coonda... ..	do.	N. E.	3	7	8	2	105
	Chick Coonda... ..	do.	"	4	30	8	5	10
	Bittugunhully... ..	do.	"	12	22	7	6	27
	Lukkunnil ...	do.	"	6	30	7	5	155
	Baisoor ...	do.	"	15	22	8	0	162
	Horahully ...	do.	"	7	15	8	0	0
Hoolacoda Hobely.	Tauloor ...	do.	"	12	0	6	3	120
	Maugudahully ...	do.	"	2	45	9	7	192
	Mullugunhully ...	do.	"	4	30	10	1	182
	Junnairdanhully ...	do.	"	8	22	10	2	177
	Mawinhully... ..	do.	"	6	15	9	0	0
	Kayraykayray ...	do.	"	7	15	8	0	82
	Hoolacode ...	do.	"	3	30	6	6	15
	Cunnugulloo ...	do.	"	3	0	5	6	7
	Munniegillay... ..	do.	"	13	52	5	6	177
	Hullybyloo ...	do.	"	17	37	5	7	110
	Beechunhully... ..	do.	"	5	37	5	3	47
	Bettadhully ...	do.	"	8	45	5	3	205
	Hossapoora ...	do.	"	21	45	5	4	110
	Hebbulshay ...	do.	"	17	52	4	7	67
	Sumpaguddhaloo ...	do.	"	23	52	4	6	55
	Nakullagoodoo ...	do.	N. W.	1	52	5	4	110
	Ourydhalloo ...	do.	N. E.	3	0	6	1	77
	Kittoor ...	do.	"	19	30	6	5	165

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from which observed.	Bearings.			Miles.	Furlongs.	Yards.
Bembulloor Hobely.	Bembulloor ...	Maullimby.	N. W.	11	37	7	2	115
	Shiwurhully ...	do.	"	3	5	6	7	142
	Kirrukunhully ...	do.	"	10	15	6	7	85
	Toallagoor ...	do.	"	11	37	6	4	110
	Harahully ...	do.	"	10	7	6	0	55
	Baugayray ...	do.	"	8	45	5	4	192
	Cunnarhully ...	do.	"	3	7	7	5	142
	Moodrawully... ..	do.	"	5	7	5	2	110
	Bulla ...	do.	"	22	37	6	4	162
	Chennapoora ...	do.	"	20	37	7	3	0
	Keeraybulla ...	do.	"	18	0	7	1	0
	Madray ...	do.	"	23	30	6	2	142
	Dundhully ...	do.	"	29	22	6	3	27
	Hosohully ...	do.	"	28	15	6	0	165
	Seera ...	do.	"	14	45	6	3	162
	Caudjoor ...	do.	"	20	37	5	0	215
	Chicka Kolatoor ...	do.	"	25	37	4	4	207
	Appusuthully ...	do.	"	28	0	3	7	55
	Jobacoday ...	do.	"	23	45	4	7	162
	Yedhully ...	do.	"	34	45	5	3	195
Bulla Hobely.	Dood Kolatoor... ..	do.	"	31	15	5	0	192
	Chukunhully ...	do.	"	35	30	5	0	105
	Koojugayray ...	do.	"	23	37	5	5	0
	Gowndhully ...	do.	"	20	0	4	4	160
	Sooligullulay ...	do.	"	8	45	5	3	0
	Halcunnay ...	do.	"	14	22	5	1	10
	Biddiroor ...	do.	"	8	45	4	1	192
	Wodairapoora... ..	do.	"	5	0	3	3	110
	Kenkayray ...	do.	"	20	22	3	0	192
	Madaygoodoo... ..	do.	"	19	15	2	4	192
	Chittugunhully... ..	do.	"	22	30	3	3	92
	Hemmaney ...	do.	"	12	30	4	0	143
	Serengaula ...	do.	N. E.	6	45	4	3	37
	Hundlay ...	do.	"	15	22	4	1	162
	Hoolshay ...	do.	N. W.	2	0	4	3	27
	Bellarhully ...	do.	N. E.	4	30	4	6	55
	Kayrayhully ...	do.	N. W.	6	7	4	6	152
	Goodoogullulay ...	do.	"	2	0	4	0	142
	Gopullapoora ...	do.	"	15	52	3	2	37
	Soguhully ...	do.	"	14	30	5	6	0



Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.			Miles.	Furlongs.	Yards.
Nirrotooda Hobely.	Coanagaul ...	Maullimby	S. E.	18	27	2	1	82
	Chicka Connagaul ...	do.	"	18	27	2	4	137
	Auloor ...	do.	"	49	52	2	7	110
	Kuntabuswanhully ...	do.	"	19	30	1	5	137
	Kittulagudday ...	do.	"	6	0	1	7	17
	Bunnawarra ...	do.	"	24	30	4	2	0
	Seedapoorra ...	do.	"	41	45	2	4	27
	Doadhully ...	do.	N. E.	15	30	3	0	57
	Hanugoad ...	do.	S. W.	44	30	4	0	82
	Doda Maloota ...	do.	"	34	52	3	4	132
	Gudjay Hanugoad ...	do.	"	59	15	3	4	110
	Addagalhully ...	do.	"	52	30	4	4	205
	Heereekora ...	do.	"	30	52	1	7	110
	Koogeeccoadu ...	do.	"	39	45	2	6	182
	Hoanawully ...	do.	"	45	15	3	5	62
	Sooly Mullattee ...	do.	"	22	22	3	0	0
	Doadhully Gowdhully ...	do.	S. W.	88	0	1	3	205
	Buswanacopooloo ...	do.	N. W.	75	30	1	3	205
	Heggoola ...	do.	S. W.	88	0	1	1	162
	Hailysuntabaray ...	do.	N. W.	69	15	1	0	110
	Chinnapoorra ...	do.	S. W.	44	37	2	2	55
	Coogoor ...	do.	"	25	0	1	1	192
	Shevapoorra ...	do.	"	61	52	2	4	192
	Harohully ...	do.	"	62	0	2	1	62
	Adjyhully ...	do.	"	70	15	1	3	165
	Goandhully ...	do.	N. W.	19	52	5	4	145
	Mungaloor ...	do.	S. W.	85	15	2	4	125
	Chickarra ...	do.	"	24	22	1	5	110
	Soonty ...	do.	"	71	7	2	6	37
Nirrotooda Hobely.	Karlehully ...	do.	N. W.	86	52	2	5	10
	Nirrotooda ...	do.	N. E.	21	30	2	5	110
	Hittulakayray ...	do.	"	2	7	2	6	165
	Hoonshaykye ...	do.	"	10	45	2	4	192
	Doodhully ...	do.	"	15	52	3	0	55
	Siddagullulay ...	do.	"	20	45	3	5	147
	Harroor Hosoor ...	do.	"	6	45	4	0	48
	Showdinhully ...	do.	"	6	43	3	2	87
	Cooroodawully ...	do.	N. W.	14	37	1	3	27

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.			Miles.	Furlongs.	Yards.
Nirrotooda Hobely.	Nundygoondy ...	Maullimby.	N. W.	38	0	1	1	135
	Naguwulla ...	do.	N. E.	62	0	2	5	110
	Raminhully ...	do.	N. W.	25	45	1	4	165
	Joginhully ...	do.	N. E.	15	30	2	3	105
	Menesedda ...	do.	N. E.	46	37	3	7	27
	Gunguwar ...	do.	"	43	0	4	3	195
	Unkunhully ...	do.	"	49	15	4	1	115
	Katinhully ...	do.	"	25	7	3	6	110
	Shigamurroor ...	do.	"	57	30	4	1	38
	Boodabumhully ...	do.	"	62	0	3	2	95
	Kysurawully ...	do.	"	49	30	4	4	197
	Bettadhully ...	do.	"	40	0	3	7	27
	Mibatapoorra ...	do.	"	52	22	3	3	60
	Ummully ...	do.	"	62	0	3	3	165
Mooloor Hobely.	Mooloor ...	do.	"	31	45	2	0	192
	Maullimby ...	do.	S. E.	56	30	1	0	110
	Adapunahosohully ...	do.	"	87	52	2	2	165
	Bouwanhully ...	do.	"	75	30	1	4	0
	Karagode ...	do.	N. E.	23	30	1	5	0
	Haurohully ...	do.	"	51	15	2	0	165
	Hosagooty ...	do.	"	78	30	2	2	62
	Gunnagoor ...	do.	S. W.	2	0	4	0	165
	Ounjigenhully ...	do.	S. E.	14	45	3	3	55
	Yeddawoondy ...	do.	"	10	0	4	0	165
Gunnagoor Hobely.	Goonimurroor ...	do.	"	10	0	4	4	110
	Naguwully ...	do.	"	3	22	3	5	110
	Sungainpoora ...	do.	"	24	30	3	6	27
	Audy Naudoor ...	do.	"	5	45	6	4	165
	Baugayray ...	do.	"	13	15	5	7	110



## CODUGU PROPER, CONTAINS 20 NAADS.

Nunjarajputtun	Naad.	
Yeddooa	do.	
Thawa	do.	
Gudday	do.	
Oolagoolee Moodagayree	do.	
Hearoor Nooruckkul	do.	
Soorlabby Moothoo	do.	
Hahlayray Buddugayray	do.	
Muddukayray Horomullay	do.	
Paudy Naku	do.	
Kuddutthu	do.	
Hoodoogayray Moondapum	do.	
Bayngu	do.	
Byru	do.	Yedday Naku Naad.
Yedday	do.	
Hirrooa	do.	
Baithoally	do.	
Ammuthu	do.	
Baypu	do.	
Kooyeangayray	do.	
Kuggoadloo	do.	
Bettieth	do.	
Kaunthamoer	do.	

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Nunjarajputtun Naad.	Sidilingipoora	... Maullimby.	S. E.	27	37	5	2	110
	Chick Aulwar	... do.	"	24	37	7	2	82
	Dodda Aulwar	... do.	"	21	45	7	7	20
	Andanypoora	... do.	"	24	7	7	6	115
	Hossocotta	... do.	"	23	0	8	3	110
	Haulaygootay	... Codergurra-hully.	N. E.	37	0	7	4	27
	Causulgodi	... do.	"	43	0	8	1	55
	Murroor	... do.	"	43	0	7	3	55
	Hebbaully	... do.	"	51	7	8	1	197
	Torianoor	... Maullimby.	S. E.	36	27	9	6	55
	Guddayhosohully	... do.	"	37	27	9	1	137
	Munjoor	... do.	"	41	0	8	0	165
	Seringala	... do.	"	46	30	9	3	192
	Chicka Naikana Hosohully	... do.	"	38	37	7	7	165
	Nelloor	... do.	"	46	37	8	0	115
	Hoolsha	... Codergurra-hully.	N. E.	51	7	7	1	82
	Ramapoor or Ramasamy Cunawye	... do.	"	51	7	6	3	165
	Bawanugorri	... do.	"	51	7	6	0	165
	Heggarhully	... do.	"	53	7	5	6	137
	Bayraycotay	... do.	"	40	0	5	0	55
	Siraholaloo	... do.	"	41	0	4	4	865
	Coodigay	... do.	"	57	27	5	4	77
	Hooloogoonda	... do.	"	32	30	3	2	0
	Chick Attoor	... do.	"	43	15	3	5	77
	Dooda Attoor	... do.	"	49	45	4	3	0
	Mungaloor	... do.	"	63	15	5	2	87
	Coodooloor	... do.	"	72	15	5	2	27
	Goomunakooli	... do.	"	81	45	5	1	27
	Moolaysogay	... do.	"	86	27	5	0	197
	Byckanhully	... do.	S. E.	89	45	4	4	87
	Madaputna	... do.	"	88	15	3	3	110
	Bulloor	... do.	"	79	30	2	6	0
	Buswanhully	... do.	"	66	15	2	2	55
	Bettagerri	... do.	"	46	52	2	5	192
	Balagode	... Seedasweer	N. W.	40	30	6	6	110



Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Nunjaraj puttan Naad Cont.	Rungasamoodra ...	Seedasweer.	N. W.	52	7	6	0	0
	Veerapaugshapoor ...	do.	"	53	27	5	4	125
	Hosopotna ...	do.	"	58	0	5	3	110
	Nunjarajputtan ...	Nooruckkul	S. E.	86	15	5	4	205
	Koombarhully ...	Soobra-muhni	N. E.	76	45	3	6	197
Yeddoor Naad.	Kothanhully ...	do.	S. E.	67	7	3	4	22
	Bettaduhully ...	Hurrugul	N. W.	21	7	2	5	127
	Koondhully ...	do.	"	2	15	2	5	142
	Santhully ...	do.	N. E.	34	0	1	3	110
	Hosohully ...	Maullimby	S. E.	2	30	7	0	95
	Hurruguggamungala or Hurrugul ...	Hurrugul	S. W.	48	45	0	5	165
	Thulluturra Chuthully.	do.	S. E.	57	15	2	5	27
	Butchully Hosohully Chuthully ...	do.	N. E.	86	15	2	5	60
	Hanagul Chuthully ...	do.	S. E.	74	45	3	1	155
	Yeddoor ...	do.	"	88	45	3	2	0
	Hanagul ...	do.	"	74	45	3	5	0
	Kaulkundoor ...	do.	"	83	0	3	6	210
	Hossobeudoo ...	do.	N. E.	72	22	2	6	197
	Doodoo Tholoor ...	do.	"	50	45	3	4	55
	Chuthully ...	do.	"	34	30	3	4	162
	Kooteyerradhunta ...	do.	"	10	7	3	7	110
	Chicku Tholoor ...	Maullimby.	S. W.	83	27	3	5	110
	Chowduloor ...	Hurrugul.	S. E.	75	30	4	2	165
	Nagurroor ...	do.	"	70	15	4	2	55
	Bullagoonda ...	do.	"	62	30	5	2	0
	Kusboor. ...	do.	"	59	30	6	1	37
	Mussagoad ...	Maullimby.	S. W.	24	45	5	4	106
	Kibbutta ...	do.	"	37	45	4	5	42
	Harohully ...	do.	"	27	30	4	2	110
	Woalligoonda ...	do.	"	14	37	4	3	37
	Bucturhully ...	do.	"	7	7	5	0	82
	Dood Ubboor ...	do.	"	11	22	5	3	137
	Chick Ubboor ...	do.	"	7	7	5	4	137
	Nairgullulay ...	do.	"	1	2	5	7	10
	Ittulumukki ...	do.	S. E.	0	45	6	2	165
	Nagullalu Kurkhully...	do.	S. W.	20	45	6	2	82

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Yeddoor naad	Hurroor ...	Maullimby.	S. W.	5	7	6	6	110
	Nairlay ...	do.	"	3	52	7	3	0
	Yellakanoor ...	Codergurrahully.	N. E.	13	52	6	2	177
	Bayloor Buswanhully..	Hurrugul.	S. E.	49	0	7	2	175
	Hoodoogooroo ...	Codergurrahully.	N. E.	24	15	3	6	165
	Currikay ...	Payrahjee.	S. W.	72	15	2	2	110
	Payrahjee ...	do.	N. W.	12	45	2	7	0
	Chembinner ...	Tháoor.	S. "	7	15	4	0	55
	Sumpajee ...	Mooda-paudu.	S. W.	12	37	3	6	197
	Thunnamuhni ...	Tháoor.	"	66	30	1	4	165
Thawa Naad.	Thaoor ...	do.	"	39	27	0	7	55
	Baughamundla ...	do.	N. W.	30	37	1	6	27
	Sayrungaul ...	do.	"	32	30	3	0	110
	Korungaul ...	do.	S. E.	2	27	2	3	95
	Suringullay ...	Hurrugul.	"	1	37	4	2	0
	Mouttakkooloo ...	do.	"	4	"	5	5	102
	Belligayray ...	do.	"	18	7	4	2	0
	Thaukayray ...	do.	"	28	22	2	2	182
	Chickkuhrriday ...	Codergurrahully.	N. W.	36	15	6	1	182
	Jumboor ...	do.	"	53	30	6	4	97
Gudday Naad.	Gurrugundoor ...	do.	"	46	20	5	0	0
	Koomboor ...	do.	"	44	15	6	4	55
	Hahdaygayray ...	do.	"	61	45	7	0	192
	Yerrakoula ...	Hurrugul.	S. W.	31	32	4	4	165
	Gurruwully ...	do.	"	3	"	3	5	0
	Kirrigundoor ...	do.	S. E.	37	45	5	0	27
	Hahringy ...	Codergurrahully.	N. W.	26	54	5	0	100
	Kirrudurray ...	Hurrugul.	S. E.	12	30	5	2	110
	Andagoowye ...	Codergurrahully.	S. W.	89	52	1	5	110
	Kulloor ...	do.	N. E.	22	37	0	5	0
Oolagoollie Moo-dagayree Naad.	Uttoor ...	do.	S. W.	56	52	3	6	110
	Nakoor ...	do.	N. W.	41	27	3	4	27
	Codergurrahully ...	do.	S. W.	63	"	2	0	55
	Maugadoor ...	Noorkul.	N. E.	59	15	4	2	200



Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Mils.	Furlongs.	Yards.
Colagoolu Mootoor Naad.	Oolagoollee ...	Codergurrahully.	N. W.	78	7	4	0	27
	Bulloor ...	do.	"	87	30	3	4	197
	Shanabogunhully ...	do.	"	56	45	3	4	0
	Baychunhully ...	do.	"	83	7	3	2	110
	Hurroodoor ...	do.	"	56	52	4	4	50
	Bettagayray ...	do.	"	65	52	5	0	200
	Mukkundoor ...	Noorkul.	N. W.	29	30	6	2	27
	Nurrugunni Oomait ...	do.	"	33	30	7	2	37
	Hadukulloonaigudhallu ...	Codergurrahully.	"	89	52	5	1	137
	Ibburnywullawaddy ...	Muddukayray.	S. E.	83	0	2	0	0
Hoaroor Noorakul Naad.	Kayddackadhala ...	Noorkul.	N. W.	65	15	2	4	177
	Moadoor ...	do.	"	7	45	2	0	110
	Hoaroor ...	do.	"	4	7	2	6	147
	Wallamoady ...	do.	N. E.	39	30	1	2	10
	Irrullay ...	do.	"	7	45	1	3	10
	Chayrullay ...	do.	"	76	0	1	4	205
	Sirimungaulla ...	do.	S. E.	40	7	1	5	0
	Niddoowuttoo..	Muddukayray.	N. W.	9	15	5	0	0
	Kaulloor ...	do.	"	18	0	7	1	55
	Hummeela ..	Soobramuhni.	S. E.	10	45	6	4	135
Soorlabay Mootoor Naad.	Moatloo ...	do.	"	30	0	6	6	55
	Koombaraguddigay ...	do.	"	42	45	5	2	42
	Munkeea ...	do.	"	48	52	6	0	72
	Kikkurhully ...	do.	"	55	7	4	6	15
	Soorlabay ...	do.	"	37	44	6	3	192
	Hahlayray Thayrum-bulley ...	Codergurrahully.	N. W.	88	30	6	0	165
	Kuddhundaulla ...	Cotay Betta.	S. E.	28	7	4	6	95
	Aarcopa ...	do.	"	21	7	5	5	27
	Kaundanquilly ...	do.	"	31	15	5	3	55
	Bettikayraymayluthauloo ...	do.	"	15	37	3	0	70
Hahlayray Buddugayray Naad.	Hemmuthauloo ...	do.	"	15	52	4	0	197
	Mookodulloo ...	do.	S. W.	9	52	2	4	65
	Hodhokaunah ...	do.	S. E.	25	30	3	3	192
	Auwundee ...	do.	S. W.	31	37	1	5	110

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Muddukayray Naad.	Kurrunangayray ...	Muddukayray.	N. W.	8	15	9	4	110
	Kurruwullay ...	do.	"	39	30	1	5	110
	Hebbuthegayray ...	do.	"	16	30	2	0	30
	Naidulluwunnuchullu ...	do.	"	39	30	6	4	110
	Kullukayray Niddug-unnie ...	do.	"	32	"	2	4	165
	Horomullay ...	do.	"	43	30	3	6	55
	Gauleebendoo ...	do.	"	45	"	4	3	0
	Muddumbeela ...	do.	N. E.	18	45	2	1	190
	Napoakle ...	Todiandamale.	N. E.	34	15	7	5	35
	Poolicotayeerawocoday ...	Thaoor.	S. E.	24	"	3	4	0
Pandy Naku Naad.	Eyeangayraygoothangayray ...	Todiandamale.	N. W.	19	30	8	6	90
	Ballamowutty ..	do.	N. E.	5	15	7	0	137
	Payroor ...	do.	N. W.	7	15	6	6	90
	Yemmaymaud ...	do.	N. E.	18	45	7	4	110
	Nellijy ...	do.	"	17	15	5	4	192
	Kolaykayraybaymoonjee ...	do.	"	40	30	6	2	110
	Baidthu ...	do.	"	46	0	7	5	182
	Koonjullu ...	do.	"	31	0	3	7	182
	Nellaudu ...	do.	"	11	37	2	5	10
	Yewakkupaudu ...	do.	"	37	30	3	3	110
Kuddietthu Naad.	Chaylaywara ...	do.	S. E.	84	7	4	4	130
	Paulingaulie ...	Veerajenderpett tree	N. W.	86	52	5	6	145
	Kurrada ...	do.	"	85	52	6	6	110
	Poothoowaddu ...	do.	"	77	15	5	5	22
	Bawaulley ...	Todiandamale.	"	66	30	7	2	5
	Kokayray ...	do.	N. E.	71	7	5	5	165
	Kirrundhaud ...	do.	N. E.	61	45	6	7	165
	Kycaud ...	do.	"	56	0	7	3	0
	Balamoory ...	Veerajenderpett	N. W.	46	30	1	1	0

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Hoodoogayray Naad. contd.	Koninjugayray ...	Veerajenderpett.	N. W.	52	15	7	4	165
	Nerrinadhuddu ...	Todiandamale.	N. E.	83	15	6	2	165
	Murragead ...	Noorkul.	S. W.	54	7	2	3	55
	Hossokuray ...	do.	"	10	45	2	3	55
	Kuttymaud ...	Veerajenderpett.	N. W.	5	52	7	5	0
	Arrucaudu ...	Noorkul.	S. E.	6	30	3	2	27
	Nelly Hoodoogayray ...	do.	"	47	45	6	3	110
	Shodooloor ...	do.	"	0	30	4	1	0
	Waulmore ...	do.	"	65	30	4	5	165
	Koondacherry ...	Thaoor.	S. E.	61	30	1	5	45
Moondapum Naad.	Poodhakulloo ...	Baingoor.	S. W.	42	22	2	2	105
	Singatoor ...	do.	"	26	45	2	3	100
	Koputty ...	do.	S. E.	15	30	1	6	105
	Kolugadhaul ...	do.	"	46	52	3	3	165
	Koottoorpoonagoad ...	do.	"	46	22	4	5	165
	Eyewettukkooloo ...	Todiandamale.	N. E.	18	0	8	6	92
	Churrinditto ...	Baingoor.	S. E.	5	30	3	2	165
	Bodagha ...	do.	"	23	15	3	2	27
	Baingoor ...	do.	"	40	30	5	1	0
	Gooyan Seedapoor.	Veerajenderpett.	N. E.	37	15	6	7	0
Yedday Naku Naad.	Aariacommangaula ...	do.	"	22	45	4	1	165
	Daywunagayray.	do.	"	0	45	3	4	110
	Bhyrunbauda ...	do.	"	3	37	4	1	0
	Yeddoor ...	do.	"	10	15	5	2	147
	Halugoonda Can-dangayray ...	do.	N. W.	4	0	5	1	110
	Umbatty ...	do.	S. E.	29	52	1	7	165
	Chumbaybailloor...	do.	N. E.	28	37	2	1	0
	Imungulla ...	do.	S. E.	68	52	1	1	110
	Poodthakatay ...	do.	N. W.	21	30	1	5	110
	Kookooloor ...	do.	"	6	0	1	0	110
Yedday Naku Naad.	Muggulla ...	do.	S. E.	80	30	1	2	0

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Yedday Naku Naad. contd.	Balaugode ...	Veerajenderpett.	S. E.	22	15	2	7	55
	Naingulla ...	do.	"	21	15	3	5	0
	Bittimgaula ...	do.	"	31	15	4	0	110
	Heggulla ...	do.	S. W.	36	0	5	1	120
	Baithoalley ...	do.	"	39	0	2	0	110
	Arrujee ...	do.	"	15	15	2	0	190
	Billagoonda ...	do.	N. E.	74	15	2	1	100
	Ammuthu ...	Moogoatay-gayray.	"	52	30	4	1	100
	Poolayray ...	do.	N. W.	18	45	5	4	55
	Kaumbaudy ...	Veerajenderpett.	"	49	45	2	5	110
Ammuthu Naad.	Karumaudu ...	do.	N. E.	7	0	4	0	30
	Kullathamaud ...	Moogoota-gayray.	N. W.	41	30	3	3	110
	Goatuwara ...	do.	"	38	0	2	0	95
	Byegoad ...	do.	"	54	30	2	6	5
	Kukkayray ...	do.	N. E.	29	15	1	1	105
	Hosoor ...	do.	N. W.	15	0	3	2	50
	Bettigayray ...	do.	"	22	30	4	7	5
	Hauthoor ...	do.	"	78	15	2	3	40
	Uttoor ...	do.	N. E.	31	52	3	0	192
	Hossokayray ...	do.	"	8	52	5	4	205
Baypu Naad.	Maykoor ...	do.	S. W.	37	15	6	5	52
	Korungaula ...	do.	"	44	0	6	1	110
	Wuddurhully ...	do.	"	47	45	5	0	110
	Chennienkotay ...	do.	"	26	52	5	3	10
	Koolungode ...	do.	"	37	30	4	1	165
	Naluwuttukulloo ...	Veerajenderpett.	S. E.	84	0	3	2	120
	Thomurra ...	do.	S. W.	66	45	6	2	110
	Mooroor ...	do.	N. W.	72	37	3	6	90
	Nalukayray ...	do.	"	46	37	5	1	165
	Mythaudy ...	do.	"	31	7	3	7	192
Baypu Naad.	Kuddhunoor ...	do.	"	86	15	2	3	0
	Kadhaymooley ...	do.	S. W.	77	45	3	1	205
	Arromulliyay ...	do.	N. W.	58	37	3	2	10
	Koonjilugayray ...	do.	"	57	52	6	2	135
	Beulloomaud ...	do.	"	65	52	5	0	25



Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Kuggoadloo Naad.	Auwundoor ...	Baingoor.	S. E.	79	37	4	7	15
	Betthathoor ...	do.	"	77	22	3	6	200
	Kauroogoonda ...	Muddukay-ray.	S. W.	50	30	5	0	110
	Arruwuttuckkooloo ...	do.	"	18	45	3	5	150
	Hayrow ...	do.	"	54	0	3	2	110
	Hooddoor ...	Veerajenderpett.	N. W.	38	15	9	3	0
	Hoadthawaddoo ...	do.	"	43	7	10	0	0
	Koombulludhauulu ...	do.	"	36	22	10	6	110
	Pauloor ...	Todian-damale.	N. E.	36	0	10	2	110
	Kurriettthoor ...	do.	"	27	0	9	3	55
	Bettikayray ...	do.	S. W.	37	30	4	5	165
	Maddhay ...	Muddukay-ray.	S. W.	73	37	3	1	58
	Billigayray ...	do.	S. E.	19	30	3	5	110
	Kuggoadloo ...	Noorkul.	N. W.	81	15	2	7	70
	Haukudhu ...	do.	"	67	30	3	1	120
	Maykayray ...	Muddukayray.	S. E.	12	0	1	5	110
	Kautakayray ...	do.	S. W.	43	15	1	0	55
	Moogootagayray ...	Moogoatagayray.	S. E.	64	30	1	4	112
Bettieth Naad.	Koondhudda ...	do.	N. W.	85	0	0	6	110
	Arruwuttuckkooloo ...	do.	N. E.	70	0	1	1	200
	Eechoor ...	do.	S. E.	27	0	2	1	0
	Shettyayray ...	do.	S. W.	19	15	2	7	165
	Kohgunna ...	do.	"	9	37	3	6	0
	Kothundee. ...	do.	"	35	52	4	0	55
	Baudhagha Hosokayray ...	do.	"	55	37	4	4	110
	Roodroogoopay ...	do.	"	77	52	4	1	110
	Kundungaula ...	do.	"	64	45	3	3	0
	Hooddhoor ...	do.	S. E.	46	0	2	7	55
	Hulleyguttoo ...	do.	"	59	22	2	2	162
	Baulajie ...	do.	N. E.	88	15	4	0	55
	Roodroobeudoo ...	do.	"	89	22	5	8	165
	Moyamoody ...	do.	"	72	30	3	0	95
	Hebbauly ...	do.	"	61	37	4	5	120
	Dhunnoogaulloo ...	do.	"	85	0	6	0	110

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Kaunthamoor Naad.	Kodamboor ...	Verajenderpett.	N. W.	36	15	8	2	187
	Baudagha ...	do.	"	36	30	6	7	110
	Kiggauloo ...	do.	"	22	15	6	5	0
	Ikola ...	do.	"	14	15	7	5	27
	Moothooamoody ...	do.	"	23	22	9	4	0
	Kaunthoor ...	do.	"	22	15	8	4	0

## KIGGUTT NAAD TALOOK.

Contains 7 Naads:—

Unjigayray Naad.

Aurykayray do.

Tawullugayray do.

Koorchy Toru do.

Kirrigoor do.

Hutthacuttu do.

Murray do.

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Unjigayray Naad.	Baingoor	Moogoatagayray	S. E.	20	30	4	0	110
	Nurrookola Chaynawara	do.	"	28	15	3	5	82
	Muggoatagayray	do.	"	49	15	4	1	55
	Nuddukayray	do.	"	41	30	5	0	30
	Hoodookayray	do.	"	25	0	5	4	165
	Toowutchumukkuloor	do.	"	50	45	6	2	165
	Atchinakanumoondoor	do.	"	44	7	5	7	55
	Beully Moondoor	do.	"	56	52	8	4	0
	Hyesoadooloo	Beerunnaunay.	N. E.	65	0	7	3	110
	Konaygayray	do.	"	63	45	8	4	55
Tawullugayray Aurikayray Naad.	Beullyoor	Moogoatagayray.	S. E.	79	45	8	1	207
	Dawunnoor	do.	"	82	15	10	4	0
	Baullullay	do.	"	79	7	9	1	110
	Nummullay	Beerunnaunay.	S. E.	89	45	9	0	55
	Shattygayray	do.	N. E.	81	15	8	4	0
	Tawullugayray	do.	S. E.	75	0	8	5	0
	Belloor	do.	N. E.	69	45	9	5	55
	Harrihara	Brummagerry.	"	1	15	9	7	55
	Nallakayray	do.	"	10	0	8	6	55
	Kothoor	Moogoatagayray.	S. E.	59	15	9	1	110
Koorchy Tooru Naad.	Koorchy	Brummagerry.	N. W.	14	15	3	7	165
	Sirimungullay	do.	N. E.	7	15	4	1	0
	Tyladhu	do.	"	18	22	3	1	55
	Kootthu	do.	"	44	22	3	3	55
	Koomuttoor	do.	"	10	37	5	3	10
	Mutthoor	Moogoatagayray.	S. E.	64	30	4	7	110
	Kotoor	do.	"	59	30	6	6	110
	Bissagoor	do.	"	70	15	7	6	55
	Nulloor	do.	"	76	15	6	7	0
	Kirrigoor	do.	"	79	15	5	0	10
Hutthaattu Naad.	Bekkaysodolloor	do.	S. E.	66	0	8	4	0
	Niddugoomba	do.	"	70	15	10	0	0
	Kaunoor	do.	"	61	45	9	3	0
	Kotaygayray	do.	"	74	0	12	4	0

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Murray Naad.	Beerunnaunay	Beerunnaunay	S. E.	85	30	2	0	0
	Porawaddu	do.	N. E.	80	30	5	3	0
	Baudughagerrikayray.	do.	"	75	30	5	2	0

## SOOLEEAY TALOOK.

is divided into two large portions, Umr and Sooleay.

## UMR TALOOK,

Contains 5 Magunnies:—

Kolumuggurra Magunnie.

Kunderpaudee do.

Chokaudee do.

Moghurrudhu do.

Yainakul Dawarhully do.



Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Kolumuggurra Magunnie.	Keiraybaugha ...	Soobramuhni.	S. W.	42	0	5	3	10
	Hurriharu Pullathoda-kukurjoday ...	do.	"	60	37	6	2	0
	Kuttudu ...	do.	"	51	52	7	5	147
	Kolumuggurra Yeddoonoroo ...	do.	"	39	30	7	5	27
	Kullumukar or Kud-dumukull ...	do.	"	27	37	8	5	147
	Dawachallu ...	Chokaudee.	S. E.	40	52	3	0	120
	Moodapaudee ...	do.	"	51	45	6	0	17
	Kunderpaudee ...	do.	"	70	0	6	1	180
	Gotugar ...	do.	"	83	52	2	3	147
	Nallukoor ...	do.	N. E.	88	30	4	7	0
Kunderpaudee Magunnie.	Kullujee ...	Soobrameehni.	S. W.	89	22	7	1	140
	Moodoonoor ...	Chokaudee.	S. W.	72	30	1	7	65
Moghurrudhu Chokaudee Magunnie.	Puduwanoor ...	do.	"	86	7	3	6	110
	Moghurrudhee ...	do.	N. E.	68	30	3	5	0
Mullakajeebeulluku ...	Mullakajeebeulluku ...	do.	"	61	15	2	7	77
	Poochupaady ...	do.	"	66	0	4	6	110
Yainakul Magunnie.	Yainakul ...	do.	"	59	0	6	1	110
	Dawarhully ...	do.	"	71	45	7	2	192
Buleela ...	Buleela ...	Soobramuhni.	S. W.	82	55	6	5	165
	Kainnay (this is situated in Punjee belongs to this)	Chokaudee.	N. E.	19	7	4	5	110

## SOOLEEAY TALOOK.

Contains 6 Magunnies:—

Bulla Naad Magunnie.

Puduwanoor do.

Moodoonoor do.

Iddurrukah do.

Arranthode do.

Uddoor do.

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from whence observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Kaimbrayjee ...	Kaimbrayjee ...	Chokaudee.	S. E.	20	15	2	7	40
	Moodoonoor ...	do.	"	34	15	4	7	165
	Murrukoonjee ...	do.	"	16	45	4	6	110
	Mundacole ...	Uddoor.	N. E.	74	37	4	7	57
	Adjeewaramainala ...	do.	"	80	27	8	0	55
	Mooliah Kaunthmungalala ...	do.	"	75	30	9	6	0
	Jaulsoor Kautoor ...	do.	"	63	30	9	6	110
	Amburuttee Payrauloo ...	do.	"	69	27	7	4	82
	Kookoonoorsonangayray ...	do.	S. W.	59	0	5	0	0
	Koyekole Bittumpaudee ...	do.	"	39	0	4	7	120
Moodoonoor Magunnie.	Ooburrurrukkumittoor ...	do.	"	10	0	4	2	55
	Ammaymuddiaroo ...	do.	"	21	0	5	5	55
Kaunbittoolookairrat-hoday.	Kaunbittoolookairrat-hoday.	do.	"	37	30	6	2	165
	Yannara ...	do.	S. E.	83	0	6	5	0
Allaytee ...	Allaytee ...	Payrahjee.	N. W.	50	30	4	7	110
	Arranthode Urroothully.	Payrahjee.	N. E.	24	0	5	0	110
Bhylhully ...	Bhylhully ...	Moodapaudee.	S. W.	42	27	3	7	37
	Thoorikauhna ...	Payrahjee.	N. E.	70	7	2	0	82
Uddoor ...	Uddoor ...	Uddoor.	N. E.	39	22	1	4	192
	Dhaylumpaudee ...	do.	"	40	15	5	7	55
Beullupaudee ...	Beullupaudee ...	do.	"	55	52	6	4	192
	Konnakumunjula ...	do.	"	51	0	7	5	55
Myaula ...	Myaula ...	do.	"	22	0	3	4	110

## POOTTOOR TALOOK.

Contains 4 Magunnies:—

Punjee Magunnie.

Nettinukay do

Bullary do

Poottoor do



Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from which observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Punjee Magunnie.	Bullapu	Chokaudee.	N. W.	32	30	4	5	125
	Kayempaudee	do.	"	21	27	5	4	0
	Audookaru	do.	"	41	52	4	4	137
	Bullupu Moodoonoor	do.	"	38	45	5	6	140
	Arrugoody	do.	"	31	27	5	7	165
	Poolikooku	do.	N. W.	7	0	5	7	0
	Punjee Moodoonoor	do.	N. E.	29	37	4	0	147
	Yennamoor	do.	N. W.	24	52	4	1	82
	Kaunchody	do.	"	56	30	3	4	147
	Kullumudduku	do.	"	61	30	2	3	85
	Eyewuttukooloo	do.	"	1	7	3	4	0
	Punjee Devarhully	do.	N. E.	4	0	2	7	115
	Pudduwanoor	do.	N. W.	29	7	2	4	165
	Pumbaythaudee	do.	"	11	30	2	2	165
	Kukkunichiddukuloo	do.	N. E.	25	7	2	4	10
	Koothookoonjay	do.	"	37	52	1	7	12
	Yeddamungulla	Kul Betta.	"	76	52	4	2	110
	Allayjee	do.	"	78	52	2	7	5
	Dholapaudee	do.	"	42	0	4	0	42
	Iddeeurrukku (this belongs to Bullaree.)	do.	"	28	27	2	3	10
Nettinukay Magunnie.	Amrakasupaady	do.	"	9	37	2	7	137
	Bettumpaudee	Maddhow.	N. W.	81	15	6	6	135
	Niddoopoolly	do.	S. W.	89	45	5	3	82
	Arrieddookah	do.	N. W.	70	0	3	3	110
	Mahdeonoor	do.	"	73	15	1	3	110
	Nettinukay	do.	S. W.	73	30	7	5	55
	Koombrajee	Niddoopoolly	"	54	30	6	0	55
	Ooperungaula	do.	"	58	30	7	7	117
	Puddurray	Maddhow.	"	80	0	10	1	67
	Payrudhauloo	Niddoopoolly	"	78	52	10	1	192
	Baillu	do.	"	73	45	12	0	175
	Belloor	do.	"	42	15	3	3	192
Bullary Magunnie.	Moodoonoor	Bella Naad.	S. E.	86	0	6	3	55
	Ahdhoor	Uddoor.	N. W.	47	7	3	4	110
	Moghurra	Kul Betta.	N. W.	47	27	5	1	42
	Sumpaudee	do.	"	56	45	5	0	142
	Poonachupaudee	do.	"	65	0	4	4	87
	Koomaramungulla	Maddhow.	N. E.	15	0	4	2	0

Hobely or Naad.	VILLAGE NAMES.	Trigonometrical point from which observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Bullary Magunnie. (Continued.)	Bembeelah	Kul Betta.	N. E.	68	37	3	7	82
	Paulathaudee	Maddhow.	"	52	30	2	4	137
	Maddhow	do.	"	43	30	1	2	0
	Kollutugay	do.	S. E.	89	7	2	3	110
	Douen Kollutugay	do.	"	57	0	2	1	192
	Moondoor	do.	S. W.	35	52	2	3	110
	Surrooy	do.	N. W.	2	37	5	7	127
	Yellia	do.	"	6	45	4	4	137
	Kaidumpaudee	do.	"	26	27	4	3	147
	Kayoor	do.	"	1	27	3	4	137
	Jary Naad	Kul Betta.	S. E.	7	15	4	4	147
	Bullary	do.	"	7	15	2	0	137
	Tuntapaudee	do.	"	25	27	3	1	27
	Peerayjee	do.	S. W.	70	45	1	6	95
	Chinnawarra	do.	"	72	15	2	2	0
	Payrumoonda	do.	N. W.	73	0	2	1	22
	Sowanoor	do.	"	57	15	3	4	65
	Koodoomar	do.	"	45	0	3	5	67
	Bellundoor	do.	"	39	0	2	6	120
	Koonkia	do.	"	49	0	2	4	102
	Nettar	do.	S. W.	19	45	2	5	165
	Agullee	do.	N. W.	25	0	2	1	55
	Kaemunna	do.	"	25	15	2	7	72
	Koomoothaady	do.	"	22	45	3	4	7
	Murrukutta	do.	"	8	27	2	4	192
	Muggurunjee	do.	N. E.	7	52	1	6	165
	Nauleelah	do.	N. W.	5	0	3	4	82
	Chirrooaka	do.	"	2	0	4	3	10
	Kaunyoor	do.	N. E.	2	52	0	7	110
	Kullupuddhuttu (this belongs to Punjee)	do.	"	81	52	0	6	0
	Koondoolee	do.	"	76	52	1	7	82
	Moorooleea	do.	S. E.	81	37	1	7	120
	Pijivina	do.	"	75	7	2	7	110
	Murruweenjee	do.	"	62	15	3	5	15
	Moopayreea	do.	"	52	27	2	6	90
	Budjinnie	do.	"	45	30	1	6	57
	Kodeaulee	do.	S. W.	8	7	0	5	42
	Turrukujee	do.	S. E.	7	15	1	3	197
	Bauleela	do.	"	46	30	3	0	110



Holohy or Naad.	VILLAGE NAMES.	Trigonometrical point from which observed.	Bearings.	°	'	Miles.	Furlongs.	Yards.
Lulury M. (Contd.)	Kootee	Chokaudee.	N. W.	75	15	3	7	110
	Moondoogaroo	Kul Betta.	S. E.	38	15	3	5	15
	Nuddoobitto	do.	N. W.	35	0	1	1	110
	Kullumbee (in Punjee)	do.	N. E.	68	30	3	7	110
	Kullunjee	do.	S. E.	31	37	2	7	55
	Baillaioor	Bella Naad.	"	14	30	3	5	32
	Bellanaad	do.	"	25	37	1	1	0
	Aariapoo	do.	"	58	30	3	5	197
	Ooloomuggurra	Maddhow.	N. W.	57	0	4	5	147
	Pullupinjee	do.	"	45	27	4	6	130
Pootoor Magunnie.	Kooreeah	Bella Naad.	S. E.	63	30	5	2	110
	Paulinjee	do.	N. W.	74	30	4	7	110
	Adjallaudee	Maddhow.	N. E.	25	22	5	6	5
	Kuddiah	do.	"	12	15	6	1	110
	Kayminjee	Bella Naad	S. E.	89	0	3	6	200
	Neiry muggurra	Kul Betta.	N. W.	89	45	5	6	110
	Veramungulla	Bella Naad.	N. E.	49	0	6	6	165
	Alluddooka	do.	"	68	45	5	0	165
	Santagode	do.	"	76	27	6	5	27
	Poottoor	do.	"	76	37	2	1	215
	Oormullay	do.	"	70	0	4	3	0
	Chiku Moodoonoor	do.	"	59	0	4	1	110
	Beullypaudee	do.	"	53	37	5	6	0
	Bunnoor	do.	"	43	0	3	2	77
	Kodimpaudee	do.	"	45	0	5	1	197
	Nuckullaudee	do.	"	37	27	6	5	140
	Bellioor	do.	"	22	27	4	7	82
	Painay	do.	"	16	7	4	7	55
	Pudduwanoor	do.	"	20	7	2	7	55
	Kubbukku	do.	N. W.	9	27	2	4	110
	Kullookah	do.	N. E.	30	0	1	6	0
	Koodypaudee	do.	N. W.	36	15	1	1	55

## General View and Description of the Boundary

DESCRIPTION.	No.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yds.	
* The Division between Mysore and Wynaad takes place at the N. W. angle of the latter district and is there formed by the Kaydaygaholay. Quitting Moogooda X; the boundary passes over undulating slopes and through a thick Forest to 138.—It here crosses the Naugur holay which is tolerably large.							
	141	31	15	"	3	110	Division of Wynaad and Mysore Moogooda X.
	"	75	45	"	4	170	
	141	46	"	"	7	110	
	140	30	30	"	4	165	
	"	18	15	"	3	110	Division of Koorchy Toru Naad.
	"	79	45	"	4	100	
	138	16	58	"	4	165	
	137	40	0	"	5	55	
Quitting the Naugur holay the boundary passes over similar ground and an equally thick jungle to 131 when it passes the Saurtee holay an inconsiderable stream. Leaving this stream the line of Demarcation between the two Territories passes through a country differing in no particular from what has been described the slopes over which the line passes are low and covered with a thick Forest it crosses the large road to	136	51	15	"	4	40	Division of Tawullugay ray Naad. Here pass Saantee holay. Small.
	135	85	45	"	1	"	
	134	33	"	"	4	"	
	133	5	"	"	6	55	
	13	5	"	"	3	5	Division of Huttucotta Naad and here cross large road to Heggadavencotta.
	13	338	45	"	1	90	
	130	338	45	"	3	55	
	"	350	30	"	4	110	
	"	332	"	"	4	165	Division of Koomanoor Parra on bank of the Luchmun Tirut.
	129	332	"	"	3	165	
	"	347	15	"	1	120	
	128	347	15	"	3	40	
	"	7	15	"	3	"	Koomanoor Parra on bank of the Luchmun Tirut.
	127	334	45	"	5	"	
	126	334	45	"	2	120	
	"	352	30	"	2	55	
Heggadavencotta at 122, and quitting it continues exactly of the same character to	125	352	30	"	3	165	Koomanoor Parra on bank of the Luchmun Tirut.
	124	6	45	"	2	10	
	"	339	15	"	1	55	
	123	339	15	"	3	55	
	122	341	15	"	5	110	Koomanoor Parra on bank of the Luchmun Tirut.
	"	318	45	"	3	110	
	121	318	45	"	5	165	
	120	355	45	"	2	110	
	119	355	45	"	1	90	Koomanoor Parra on bank of the Luchmun Tirut.
	"	319	15	"	2	100	
	117	328	10	"	4	200	
	116	348	15	"	5	110	
	115	311	45	"	3	100	Koomanoor Parra on bank of the Luchmun Tirut.
	"	319	15	"	2	100	
	117	328	10	"	4	200	
	116	348	15	"	5	110	
Koomanoor Parra 114, on the bank of the Luchmun Tirut.	114	311	45	"	3	100	Koomanoor Parra on bank of the Luchmun Tirut.
	"	319	15	"	2	100	
	117	328	10	"	4	200	
	116	348	15	"	5	110	



DESCRIPTION.	No.	Angles.		Distance.			Objects.
		°	'	Miles.	Furlongs.	Yds.	
Crossing the above river from this point it proceeds 6½ Furlongs through a forest, whence descending into the River, its waters mark the Division till to 109. The river of this distance has high banks, a sandy bottom and is not easy to be crossed.	112	350	15	"	3	"	
	111	350	15	"	2	10	
	110	350	15	"	1	55	
	109	350	15	"	3	200	
		350	15	"	2	"	
	108	312	30	"	2	55	
		237	45	"	3	140	
	107	269	"	"	2	"	
	106	302	"	"	2	55	
		287	15	"	4	180	
Quitting the Luchmun Tirut the country becomes rather steeper, the Boundary slightly ascending, proceeds over a comparatively high ridge of slopes till reaching 100.	105	311	45	"	2	110	
		343	15	"	2	"	
	"	322	58	"	2	110	
	"	335	45	"	4	110	
	"	308	45	"	1	165	
	104	334	45	"	2	55	
	"	334	45	"	4	165	
	103	320	30	"	1	170	
	"	320	30	"	1	170	
	102	352	"	"	2	165	
From this point to Cud-deway holay a small stream forms the division till to 99.	"	293	30	"	3	"	
	"	313	55	"	3	"	
	101	271	5	"	4	"	
	100	247	"	"	4	110	
	"	308	45	"	7	60	
	"	289	15	"	2	200	
	99	219	30	"	1	55	
	"	272	15	"	4	100	
	98	229	45	"	2	165	
	"	300	45	"	2	165	
Thence it proceeds to 98 having here ascended the summit of the Mawcull ridge it proceeds along it, passing frequent acclivities to 83. The whole of this Distance (that is from 98 to 83) is a continued range of small Hills which is covered	"	340	40	"	2	55	
	"	320	30	"	4	"	
	97	350	15	"	1	170	
	96	49	"	"	3	50	
	95	346	30	"	1	2	
	"	310	"	"	2	55	
	"	294	45	"	3	110	
	94	315	30	"	5	55	
	"	315	30	"	1	20	
	"	355	30	"	4	165	
	"	316	45	"	2	55	
	93	"	"	"	0	200	
	"	"	"	"	1	"	
	"	29	15	"	3	"	
	92	"	"	"	1	110	
	"	309	30	"	1	165	
	91	344	15	"	3	55	

DESCRIPTION.	No.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
with a high impervious	90	272	45	0	1	0	
Forest forms an excellent	89	272	45	0	3	10	
boundary, Mawcull and Seed-	88	340	15	0	3	55	
asweer are the most conspic-	"	278	"	0	3	55	
uous tops of it.	"	326	30	0	3	165	
Quitting the Seedasweer	85	283	45	0	5	170	
range of hills the boundary	84	262	15	0	4	55	
gently descends and follow-	"	262	15	0	0	110	
ing the course of a small nalla	83	329	30	0	0	165	
for a considerable distance	"	329	30	0	6	0	
meets the Bhyrun holay	"	345	15	0	3	165	
along whose Stream it passes	"	324	15	0	5	165	
till reaching the Cauvery river	"	"	"	0	7	20	
to 81 close to the village of	82	307	10	0	2	90	
Rungasamoodrum.	"	345	10	0	3	55	
	"	275	15	1	0	0	
	81	243	15	0	4	55	

### REMARKS on the foregoing Borders of the Boundary.

From the point (Moogooda x.) marking the Division between Mysore and Wynaad, till the line of separation falls into the Cauvery near Rungasamoodrum, the boundary passes through a thick forest nearly impervious in many parts, it proceeds partly over undulating slopes, and partly over the crest of the low range of the Seedasweer Hills:—this part of the Frontier is crossed but in few places, having but three large roads, and those indifferent throughout it, and the woods extending a considerable distance on each side of the line of demarcation render it naturally strong, difficult to be approached, and easily defended.

From Rungasamoodrum	0	0	"	5	0	
till Moogooda E. the Cauvery	41	5	"	4	110	
forms the boundary its breadth	3	15	"	2	0	
is during this distance about	29	45	"	7	0	
½ of a mile—the banks are	10	45	"	6	55	
always high, and steep, and	85	15	"	4	55	
the bed rocky, it may be con-	47	0	1	0	55	
sidered as constituting a	77	15	1	3	55	
strong frontier from June to	90	30	"	3	55	
August inclusive, it can only	342	30	"	7	110	
be passed in a boat, the stream	45	30	"	4	110	
however for the remainder	317	0	1	1	110	
of the year admits of its be-	351	15	"	3	110	
ing forded in some places, but	16	0	1	3	0	
the elevation of its banks,	72	0	"	4	165	
renders it readily defensible	17	0	"	5	110	
during the early part of the						
country in						



DESCRIPTION.	No.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
its vicinity consists of steep slopes partially covered with jungle, advancing to the north however this gives way to open cultivated plains		99	10	0	7	165	Moogooda. E.
		22	5	0	4	165	
		312	"	1	"	55	
		"	"	0	3	70	
		96	15	0	6	55	
		18	48	0	3	55	
		323	30	0	6	160	
		63	30	0	4	110	
		109	45	0	7	110	
		49	45	0	5	165	
commencing from Moogooda E. where the boundary quits the Cauvery it passes over a small Nulla till to 79.	83	7	30	0	2	55	Moogooda. E.
		334	"	0	2	0	
		220	35	0	2	110	
		311	15	0	3	0	
		280	45	0	7	55	
		322	45	0	4	55	
		"	"	0	5	110	
		300	15	0	1	55	
		222	35	0	2	10	
		189	5	0	3	0	
Thence it runs between the village of Kautinhully and Villoor and proceeds over easy slopes to 75.	77	224	30	0	1	60	Moogooda. E.
		175	45	0	4	165	
		292	15	0	6	70	
		76	270	15	0	4	
		75	162	55	1	"	
		"	"	"	"	130	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
From this point it passes for a very short way through the bed of a small tank and ascends a rather steep ridge to 74.	74	265	58	0	6	0	2 Small tanks.
		327	40	1	"	40	
		73	345	"	1	165	
		72	336	30	1	200	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
Thence it continues to pass over a rather stony ridge of irregular height till Thence descending it passes two small tanks at 71 and meets another close to 70.	71	24	"	0	3	123	Small tank.
		325	28	0	1	137	
		26	35	0	1	165	
		271	58	0	2	0	
		290	30	0	4	137	
		305	15	0	1	200	
		62	35	0	4	0	
		337	40	0	5	13	
		2	35	0	7	110	
		"	"	"	"	"	
Quitting it the boundary proceeds over a similar country to 69.	69	14	30	0	5	0	Division of Connagaul
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
From which till to 68 it passes through the bed of the Cudvayholay here small. Quitting this nulla the boundary passes over easy slopes till to near 66 when it runs for a very short way over steeper ones but again proceeds over a low flattish country covered with a light jungle to 64.	65	82	30	0	2	82	Gunnagaur with Arculgoad.
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	

DESCRIPTION.	Nos.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
Thence to 63 it passes along the Chenholay.	63	334	28	"	6	"	Mooloor and Neiratoda with Arculgoad and Chenholaysmall.
Quitting which it runs over a similar country to what has just been mentioned passing along the banks of two small tanks at 62 and 61.	62	90	"	"	6	55	2 small tanks.
Quitting them it continues to proceed over a rather flat country, passes close to the village of Sheaghurra at 57 continues of the same character to 53, here it passes the slopes running from Mensigootia which are comparatively steep, it crosses the great road to Mysore at 51 and runs over an open waving country to 49 passing for the greater part of this distance between cultivation, here it joins the Chenholay and continues passing through it to 48.—It proceeds over a close country to 46 where it crosses the great road to Mullyputna from this point it proceeds over rather steep slopes and through a jungly country to 42.	61	120	34	"	2	69	
From this it proceeds over cultivation mostly to 41 where quitting fields it passes through a rather jungly country to 40—when it joins the Hemmawutty.	56	"	"	"	5	55	Cross great road to Mysore.
		70	15	"	1	165	
		18	15	"	2	100	
		349	32	"	5	"	
		26	32	"	2	165	
		12	50	"	4	27	
		347	30	"	2	55	
		284	30	"	3	69	
		294	55	"	1	55	
		343	10	"	7	68	
From this it proceeds over cultivation mostly to 41 where quitting fields it passes through a rather jungly country to 40—when it joins the Hemmawutty.	50	11	45	"	1	55	Division of Mensedda and Holacode with Arculgoad. Here meet the Chenholay.
		328	10	"	5	165	
		347	15	"	2	165	
		9	"	"	2	10	
		80	30	"	5	123	
		96	10	"	3	27	
		51	15	"	2	41	
		28	15	"	1	62	
		34	55	"	6	62	
		"	"	"	1	123	
From this it proceeds over cultivation mostly to 41 where quitting fields it passes through a rather jungly country to 40—when it joins the Hemmawutty.	42	85	30	"	5	110	Division of Maharajdroog, Coodooloor and Arculgoad. Moogooda D.
		19	55	"	1	44	
		60	10	"	2	192	
		336	28	"	6	"	
		354	"	"	3	44	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	
		"	"	"	"	"	

Leaving the Cauvery at Moogooda E., it will be seen that the boundary passes over a country much more open than the previous part, the thick forest has given way to a jungle of light brushwood occasionally interspersed with trees of a larger growth, but the wood is in scarcely any place sufficiently thick to answer the purpose of defence. The declivities over which the line of division passes during this distance are few and inconsiderable.



DESCRIPTION.	Nos.	Angles.		Distances.			Objects.	
		°	'	Miles.	Furlongs.	Yds.		
The general character of the Hemmawutty river will be found in its proper place this portion of it is only fordable for a part of the year, the country on its borders is formed of open waving slopes well cultivated and inhabited. The breadth of the river is about six hundred feet, it has rather a rocky bed, and the height and precipitous steepness of its banks renders it a good natural defence.	37	271	58	"	4	55	Division of Coodooloor Coadley and Mahrajee.	
		258	15	"	6	110		
		294	15	"	4	165		
		270	"	"	4	"		
		285	58	"	1	165		
		313	15	"	2	165		
		346	15	"	4	110		
		287	15	"	2	165		
		314	58	"	2	165		
		271	30	"	1	165		
		215	10	"	1	110		
		190	"	"	4	165		
		238	35	"	2	"		
		275	40	"	3	"		
		313	30	"	2	"		
		337	35	"	6	"		
		259	28	"	4	110		
		333	28	"	6	110		
		236	"	"	2	"		
		Quitting the Hemmawutty the boundary passes over the Kauty holay, this nulla has generally a good flow of water, its banks are low and it is fordable most part of the year to 36.	36	196	"	1		2
235	15			"	"	55		
180	"			"	3	55		
150	58			"	2	165		
180	"			"	4	110		
219	30			"	2	"		
180	"			"	2	55		
138	"			"	5	165		
161	32			"	3	110		
161	32			"	1	55		
From this it passes through a little paddy cultivation to 33. Thence it again proceeds along the Kauty holay to 31 whence quitting it, it runs along a smaller branch of this nulla to 28. Quitting this nulla the boundary passes over comparatively easy and open slopes to 25. From this point it slightly descends and passes a small stream and the cultivation of Yeggudhully close to 24 where it crosses the road to Bissly. From this the boundary slightly descends running close to some cultivation and crossing a large branch of the Kauty holay at 22.	35	104	10	"	2	110	Yeggudhully close and here cross road to Bissly. Cross a large branch of the Kauty holay.	
		180	"	"	"	165		
		259	"	"	1	55		
		208	30	"	2	"		
		249	35	"	4	200		
		294	"	"	2	100		
		269	30	"	3	120		
		180	"	"	2	120		
		150	28	"	5	63		
		216	35	"	5	63		
	24	176	"	"	6	"		
		202	15	"	4	"		
		180	"	"	1	120		
		124	20	"	1	55		
	23	158	10	"	4	"		
	22	106	15	"	2	200		

DESCRIPTION.	Nos.	Angles.		Distances.			Objects.	
		°	'	Miles.	Furlongs.	Yards.		
Quitting the nulla it experiences some slight acclivities, but passes over a generally open and rather waving country till to 20 it meets here close to the village of Chemmunhully a large branch of the Kauty holay from this it passes along this nulla till to 19, this stream is small; its banks low, everywhere fordable, the country on each side is well cultivated. Quitting the nulla it passes over open and undulating ground crossing a little puddy cultivation at 17. Thence it proceeds over similar country to No 16, passing close by Codugu betta, it descends to a small nulla and ascends to 14 from this the boundary passes over a steep and bare ridge running by Narhully Beelrashy betta till to Moorlucky betta 12. From this it descends to the nulla near Yeddachinta, thence passes along it to the junction of larger one No. 9 Dara. Quitting this it ascends with considerable steepness to Nitty betta No 8. From this point it continues to pass over an exceeding steep and precipitous ridge crossing a cuddung or breast work at 5, the acclivities of this ridge are of unequal elevations but all are high, its top is bare, but the country immediately at its foot is exceedingly jungly. From this point the boundary passes along one of the streams forming the head of the Coomardarry river, it runs to till Moogooda A, through an exceeding steep and thick forest, this point forming the division between Canara, Codugu, and Mysore. Leaving Moogooda the boundary after some distance begins to ascend the sides of the steep and jungly hill of Soobramuhni and passing within		124	"	"	5	137	Division of Moolor, Gowdhully and Mungeerabad.	
		159	10	"	4	"		
	21	102	20	"	2	165		
		31	"	"	1	110		
		77	"	"	1	110		
	20	148	30	"	3	55		
		164	15	"	3	55		
		134	50	"	2	100		
		175	"	"	5	110		
		209	30	"	3	"		
	19	180	"	"	2	120		
		255	40	"	5	110		
		288	10	"	3	"		
	17	255	30	"	4	110		
	16	230	"	"	4	110		
	15	307	"	"	4	110	Cross cultivation, Division of	
		245	"	"	4	"	Gowdhully.	
	14	278	"	"	4	"	Yeddooa Naad	
		308	10	"	4	110	and Mungeerabad.	
		336	40	"	7	120		
	12	318	"	1	3	165		
		222	40	1	"	110		
	10	265	15	"	1	165		
	9	306	20	"	2	143		
		243	"	"	5	55		
	8	259	20	"	3	165		
		217	28	"	2	110		
	7	180	"	"	1	165		
	6	265	15	"	3	55		
	5	240	30	"	4	"	Cross Cuddung.	
	4	290	30	1	1	"		
		322	"	"	5	55		
	3	311	"	"	3	55		
		333	10	"	5	55		
	2	276	28	1	1	100		
		330	15	"	3	55		
	274	45	"	6	"			
	225	55	"	7	"			
	249	28	"	6	55			
	223	30	"	4	120			
	234	45	"	3	55			
	285	30	"	4	90			
1	180	"	"	6	55			
2	103	30	"	3	27			
3	129	40	"	3	27			
4	180	"	"	3	110			



DESCRIPTION.	Nos.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
a short distance of the summit of that hill reaches the top of a ridge proceeding from it at 5. From this it descends with great steepness to 6, having run for a short distance through a small nulla in one of the clefts it continues to pass through till 9, where it joins another one of greater magnitude along which it passes, following its various windings to 20 where running close by the village of Yeddoonoor. This nulla is joined by another large one running from the foot of the Kuddumkull ghaut, the nulla over which this boundary runs is small, but, till passing the foregoing village it runs through an exceeding steep and jungly country, the fall of the ghauts being till within a short distance of that place almost precipitous, quitting the village of Yeddanooroo the boundary passes over the Kuddumkull holay till to 22, quitting it, it proceeds over easy slopes, and again joins the small nulla close to the village of Agrarum at 25. The last short distance being close to the cultivation of that village from this to 26, it passes along the Kuddumkull holay, here quitting it runs close to the cultivation of Baulleela, and ascends with some slight steepness till to 29, thence it proceeds along a ridge (the first part rather steep the latter gently decreasing in elevation, but the whole covered with a rather thick jungle) and passing the great road to Soobramuhni at 31, meets the Coomardarry river close to the village of Hosohully at 33.	5	225	"	"	3	110	Division of Kolumuggurra and Yeddooa Naal.
	6	142	"	"	1	2	
	7	214	30	"	7	55	
	8	189	30	"	3	166	
	9	153	10	"	4	"	
	10	268	40	"	2	55	
	11	224	"	"	1	110	
	12	247	"	"	2	166	
	13	214	30	"	6	55	
	14	308	45	"	3	55	
	15	271	40	"	3	120	Village of Agrarum close Division of Hoolumuggurra and Kunderpaudee.
	16	240	15	"	2	110	
	17	293	30	"	2	110	
	18	261	"	"	3	"	
	19	213	20	"	7	166	
	20	269	30	"	4	166	
	21	347	56	"	3	120	
	22	306	15	"	2	200	
	23	337	40	"	3	190	
	24	301	15	"	3	166	
	25	242	30	"	3	100	Division of Kunderpaudee and Yainkull Daverhully. Pass great road to Soobramuhni.
	26	330	30	"	6	55	
	27	58	"	"	1	"	
	28	99	15	"	4	137	
	29	44	50	"	3	27	
	30	334	15	1	0	55	
	31	352	40	"	7	"	
	32	90	40	"	2	110	
	33	36	15	"	2	55	

From the point where the boundary quits the Hammawutty till crossing the small nulla at Chicka Tholoor close to Codugu betta (No. 14) it proceeds through a comparatively champaign country passing over open slopes and cultivated fields, and in no place during this distance can it be considered as at all difficult of access or offering any facilities for defence, quitting this nulla however, and having assumed the course of the hills along whose steep summits it passes, the frontier becomes stronger and easily defensible, and descending the ghauts by a deep and narrow valley continues of a similar character (with the exception of a very small space in the vicinity of Soobramuhni) till reaching the Coomardarry the stream of which from this point (No. 33), commences to form the line of division.

DESCRIPTION.	Nos.	Angles.		Distance.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
It will be seen that the Coomardarry constitutes the northern boundary for a considerable distance, it forms a good natural limit and tolerably strong barrier; as such however it is more formidable from the general height of its banks, than the depth of its stream which admits of its being forded in many places, and it is only in the rains that it can be considered as presenting any serious obstacles in this particular; it is generally of narrow breadth in no part being greater than the seventh of a mile, the bed is of an uneven surface, being generally rocky. The country on the borders of this river consists of low steep slopes, partially covered with trees.	34	327	44	"	4	130	Division of Yanikul and Sicily.
	35	302	40	"	7	166	
	36	271	25	"	5	"	
	37	308	15	"	7	130	
	38	247	15	"	5	110	
	39	279	15	"	4	110	Division of Sicily and Kaumpaudy.
	40	319	15	1	"	27	
	41	270	40	"	5	60	
	42	217	10	"	6	110	
	43	264	15	"	4	"	
	44	298	50	"	6	166	Division of Kaumpaudy and Kaiemuhni from this the Division of Kaiemuhni and Punjay and from the 0-1-50 of Punjay and Bundady.
	45	231	40	1	2	10	
	46	283	45	"	6	"	
	47	4	15	1	1	30	
	48	314	"	"	6	55	
	49	266	10	1	"	27	Division of Bundady and Kuddubudda.
	50	314	40	"	4	55	
	51	301	10	1	1	"	
	52	317	28	"	4	110	
	53	286	10	"	3	"	
This portion of the frontier is not crossed by any large communications, numerous parts however connect the villages on either side.	54	299	"	"	3	166	Division of Kuddubudda & Amrakoopaady.
	55	264	40	"	3	55	
	56	297	30	"	2	166	
	57	276	10	1	"	"	
	58	319	40	1	"	110	
	59	274	40	"	6	170	From this 0-5-50 is the Division of Amrakoopaady and Bullary.
	60	227	30	"	7	55	
	61	231	20	"	3	100	
	62	205	40	"	3	110	
	63	273	"	2	1	"	
	64	305	40	"	4	55	From 0-6½ is the Division of Bullary and Poottoor.
	65	"	"	"	4	"	
	66	287	40	"	"	55	
	67	33	45	"	7	110	
	68	265	50	"	7	"	
	69	319	28	1	3	"	From this 0-1-75 is the Division of Poottoor and Baug Belloor.
	70	278	28	"	5	100	
	71	325	30	"	7	110	
	72	19	10	"	6	"	
	73	325	58	"	6	110	
	74	19	"	"	4	166	
	75	338	"	"	3	55	
	76	278	15	"	7	"	
	77	290	50	"	5	166	
	78	258	"	"	5	100	
	79	278	40	"	7	100	



DESCRIPTION.	Nos.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
Quitting the Nitrawutti (the name which the Coomardarry assumes after passing Copunungudday) the boundary passes along Pair-nay holay till to 90, this stream is small, but has comparatively high banks. The numerous small valleys bordering it are well cultivated, but the country in its vicinity is of very irregular surface.	80	215	40	"	7	"	
	81	245	50	"	2	110	
	82	193	40	"	4	10	
	83	221	40	"	3	55	
	84	190	28	"	1	170	
	85	234	10	"	3	170	
	86	180	"	"	3	170	
	87	134	28	"	1	110	
	88	180	"	"	4	110	
	89	251	15	"	2	166	
	90	297	15	"	2	166	
Leaving this stream the line of division begins to pass over small hills and countries and to proceed over a rather rugged country till to 104 passing in this distance some small streams.	91	264	40	"	2	60	
	92	287	35	"	2	137	
	93	193	40	"	1	110	
	94	277	40	"	1	55	
	95	239	"	"	2	100	
	96	254	30	"	1	110	
From this it gradually ascends a rather steep ridge covered with jungle reach at 111, the summit of that range of hills of which Bulla Naad is the highest top.	97	140	50	"	1	166	
	98	173	30	"	2	60	
	99	134	30	"	1	166	
	100	82	"	"	1	110	
From the previous mentioned point till to 114, the boundary passes over the crest of the before mentioned range of hills which is here rather steep and covered with a thick forest.	101	134	35	"	3	200	
	102	187	30	"	2	110	
	103	238	15	"	3	140	
	104	254	40	"	4	55	
	105	143	50	"	5	10	
	106	91	30	"	1	120	
Thence the boundary descends and passes in an irregular direction over low but steep tops partially open crossing numerous small nullahs and cultivated valleys till to 124 where it falls into the Irrudday holay and continues along its stream till to 128. This river is here narrow its banks are not remarkable for their height, and it is readily fordable except immediately in the rains.	107	169	10	"	1	110	
	108	197	40	"	3	"	
	109	262	50	"	1	66	
	110	98	"	"	1	166	
	111	137	15	"	5	"	
	112	133	40	"	4	55	
	113	164	"	"	4	55	
	114	129	50	"	1	90	
	115	253	45	"	3	140	
	116	158	10	"	2	100	
	117	253	50	"	2	120	
	118	152	35	"	2	166	
	119	226	10	"	1	110	
	120	180	"	"	2	110	
	121	168	15	"	3	100	
	122	279	40	"	2	140	
	123	199	40	"	4	166	
	124	164	10	"	2	110	
	125	88	15	"	4	166	
	126	125	58	"	3	160	
	127	10	"	"	1	110	
	128	84	"	"	4	160	

DESCRIPTION.	Nos.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
	129	191	40	"	2	160	
	130	167	30	"	1	"	
	131	278	50	"	2	"	
	132	256	50	"	5	"	
Leaving the river it proceeds over low and open slopes to 132.	133	180	"	"	2	"	
	134	190	15	"	4	110	
	135	151	"	"	2	10	
	136	169	10	"	3	160	
	137	229	50	"	2	100	
From this the boundary immediately ascends and having reached the summit proceeds over a steep and jungly ridge of hills to 142.	138	180	"	"	1	"	
	139	139	15	"	2	27	
	140	192	"	"	2	180	
From this the boundary continues with little exception to follow the summit of a rather low range of hills which are covered with a high jungle; this distance is crossed by one road and several foot paths; the numerous valleys formed by the small ridges extending themselves from this the great one, form intermediate valleys which are cultivated nearly from their rise.	141	135	58	"	4	"	
	142	180	"	"	2	27	
	143	125	"	"	6	55	
	144	268	"	"	1	110	
	145	312	55	"	2	55	
	146	279	"	"	1	110	
	147	302	50	"	2	60	
	148	262	50	"	1	166	
	149	180	"	"	2	27	
	150	243	"	"	2	166	
	151	324	35	"	4	27	
	152	31	30	"	2	100	
	153	334	"	"	5	20	
	154	277	15	"	2	27	
	155	339	"	"	3	"	
	156	300	45	"	2	165	
	157	236	10	"	1	115	
	158	205	35	"	1	165	
	159	275	35	"	6	"	
	160	232	5	"	4	110	
	161	180	"	"	4	"	
	162	217	35	"	2	115	
	163	278	"	"	3	165	
From the latter point the boundary commences to descend and passes over partly high and steep slopes partially open till crossing the Baudoo holay at 169.	164	265	58	"	5	110	
	165	263	45	"	4	110	
	166	225	"	"	3	5	
	167	255	10	"	3	120	
	168	288	5	"	4	"	
	169	248	40	"	5	165	

From the point where the boundary quits the Nitrawatti till reaching the Baudoo holay, it for a large part of this distance, runs along the summits of low ranges of hills. The forest with which they are covered however more than the elevation they present, would offer any difficulty which exists as to passing them, this distance it will be seen is crossed in numerous places, both by large roads and foot paths.—Indeed it (the boundary) is only partially covered by the hills on it, the immediate spaces between them giving a ready access to the interior.



DESCRIPTION.	Nos.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
Leaving the Baudoor holay the surface of the country becomes considerably flatter, the steep tops of the ridge just passed gives way to a flat table land whose rocky surface is quite devoid of jungle, the descent from this table into the cultivated valleys is short, but steep over the kind of country which has just been described, the boundary passes from 169 to 197, during this distance, it is every where to be passed with the utmost facility.	170	248	40	"	4	165	
	171	207	30	"	3	120	
	172	245	30	"	2	110	
	173	292	15	"	3	120	
	174	278	55	"	2	90	
	175	260	30	"	5	55	
	176	237	10	"	2	110	
	177	211	30	"	2	180	
	178	226	30	"	2	110	
	179	241	30	"	4	"	
	180	185	40	"	6	110	
	181	215	45	"	1	110	
	182	141	30	"	2	165	
	183	95	56	"	1	110	
	184	125	30	"	3	110	
	185	172	30	"	3	120	
	186	115	15	"	3	120	
	187	142	30	"	7	110	
	188	90	"	"	3	110	
	189	70	30	"	3	176	
	190	133	"	"	4	110	
	191	143	58	"	4	55	
	192	88	10	"	3	55	
	193	60	10	"	2	10	
	194	85	30	"	3	55	
	195	41	30	"	2	55	
Leaving the nulla which the boundary passes at the last mentioned point (197) it ascends and proceeds over a ridge of bare and somewhat steep slopes till to 210; this space is free from jungle and like the last one readily passed	196	18	45	"	4	55	
	197	"	"	"	2	5	
	198	43	10	"	2	5	
	199	29	25	"	3	190	
	200	88	58	"	1	55	
	201	128	48	"	6	110	
	202	114	"	"	3	200	
	203	166	30	"	3	55	
	204	111	58	"	5	55	
	205	71	45	"	2	120	
	206	6	15	"	4	55	
	207	36	"	"	2	55	
	208	78	58	"	2	110	
	209	114	"	"	2	110	
	210	156	"	"	2	165	
Quitting the last point the boundary proceeds over a ridge, partially covered with forest, considerably steeper than the former, and continues along its summits till to 214.	211	121	"	"	3	55	
	212	91	15	"	"	"	
	213	111	30	"	2	110	
	214	88	45	"	2	55	
	215	132	30	"	6	110	
From this it proceeds over low open slopes and	216	96	"	"	1	110	
	217	145	30	"	3	"	

DESCRIPTION.	Nos.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
with some steepness towards the Puiswunni, reaches it at 221.	218	133	30	"	2	110	
	219	199	30	"	3	90	
The boundary having reached the Puiswunni at 221.	220	122	15	"	1	"	
	221	151	30	"	9	165	
From the point where the boundary quits the Baudoor holay till its falling into the Puiswunni, it is almost every place to be passed without any kind of difficulty. Indeed for this distance it is quite factitious, runs over a country quite open, and is no where marked by natural limits.							
	222	224	15	"	1	190	
	223	198	15	"	3	110	
	224	219	35	"	5	200	
The boundary having reached the Puiswunni at 221, is marked by its stream till to 228, this river is here only a furlong broad, and being deep, and having high and precipitous banks is not to be passed during this distance.	225	187	"	"	3	165	
	226	144	45	"	2	"	
Leaving the Puiswunni the line of separation runs along a small nulla till to 233. Its low banks and shallow stream renders it easily passed in all places.	227	222	58	"	"	200	
	228	139	"	"	1	"	
	229	112	10	"	2	170	
	230	88	45	"	4	55	
Ascending from this rivulet the boundary passes over a low but steep ridge of hills, covered with a thick jungle and continues to proceed over a rugged and uneven surface till reaching 241.	231	58	45	"	3	110	
At which points it meets a small nulla along which and partly through the cultivation of Bundeearka, it runs till to 246, having the country on each side steep and jungly.	232	91	15	"	4	90	
Leaving the cultivation the line marking the limits ascends with considerable steepness, passes for a short way over an elevated ridge till to 251.	233	55	30	"	3	120	
	234	76	15	"	2	110	
	235	107	"	"	6	60	
	236	80	30	"	3	165	
	237	51	30	"	2	55	
	238	97	15	"	5	200	
	239	64	15	"	6	165	
	240	91	"	"	2	110	
	241	49	10	"	3	165	
	242	106	30	"	3	165	
	243	127	15	"	1	110	
	244	81	30	"	1	165	
	245	129	15	"	2	165	
	246	97	45	"	3	120	
	247	29	15	"	3	165	
	248	334	35	"	3	110	
	249	75	"	"	3	110	
	250	96	10	"	3	55	
	251	110	"	"	3	110	
	252	201	15	"	4	40	
Whence it rapidly descends, crosses the valley through which it had before passed, and ascends a steep and elevated top till to 255.	253	159	35	"	7	55	
Whence it proceeds along the summits of a high and jungly ridge till to 257.	254	100	15	"	2	110	
	255	144	30	"	6	"	
	256	57	10	"	4	110	
	257	95	45	"	7	100	



From this where the boundary falls into the Puiswunni till reaching the elevated top at 257, it passes over rather high and steep slopes, the greater part a thick forest; this portion of frontier is only crossed by a foot-path, and yma be said to offer numerous obstacles to its being more generally traversed.

DESCRIPTION.	Nos.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
Quitting this point the last mentioned boundary descends with great steepness till to 263, the latter part having passed along the bed of a small nulla.	258	180	"	"	2	165	
	259	137	45	"	2	"	
	260	188	55	"	5	160	
	261	140	45	"	5	"	
	262	174	35	"	2	170	
	263	231	30	"	3	110	
	264	110	"	"	1	110	
	265	74	"	"	5	165	
	266	36	45	"	2	165	
	267	220	45	"	3	110	
Quitting it, it runs for some distance along low slopes, gradually however ascending to the high and jungly top at 271.	268	60	15	"	5	55	
	269	22	45	"	3	"	
	270	247	15	"	5	20	
	271	10	45	"	3	110	
	272	81	15	"	4	120	
	273	32	"	"	7	110	
	274	91	55	1	1	120	
	275	117	10	"	3	"	
	276	31	45	"	1	110	
	277	83	30	"	4	110	
Whence it runs along the crest of a high ridge to 274. From this it descends and falling into a small nulla passes along it till to 277.	278	290	15	"	2	"	Left 165 yds the point.
	279	177	30	"	2	120	
	280	177	30	"	1	110	
	281	177	30	"	1	"	
	282	177	30	"	2	"	
	283	177	30	"	1	10	
	284	177	30	"	5	"	
	285	148	40	"	5	"	
	286	206	45	"	7	110	
	287	265	15	"	2	"	
From the last point the boundary ascends with steepness to 285. From this top which is free from jungle, it descends and passing over numerous acclivities reaches a rather large nulla at 289. Along whose stream it passes till to 200, this nulla is rather large, has high banks but can be passed without difficulty.	288	285	"	"	5	10	Here join large nulla.
	289	272	15	"	4	165	
	290	305	58	"	2	"	
	291	254	30	"	1	120	
	292	274	"	"	5	20	
	293	237	10	"	2	"	
	294	284	30	"	2	10	
	295	204	"	"	1	20	
	296	245	40	"	3	55	
	297	180	"	"	2	30	
	298	139	"	"	2	"	
	299	185	"	"	2	"	

DESCRIPTION.	Nos.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
Quitting it the line of division ascends one of its tributary streams to 302.	300	185	"	"	3	"	Parathuddy point.
	301	146	30	"	2	"	
	302	170	10	"	4	110	
	303	234	15	"	4	"	
	304	265	58	"	3	"	
	305	214	30	"	1	165	
	306	243	"	"	2	"	
	307	143	58	"	1	55	
	308	96	15	1	1	"	
	309	178	"	1	1	165	
Whence it passes into Parathuddy point at 306, the latter part being particularly high and steep. Thence it proceeds along a steep and elevated ridge to 308, this latter portion being quite open. A steep descent to 309 passing over a small nulla, at this place it passes a steep ridge to 311. And ascends another of a similar nature to 315, the whole of this latter space being a thick jungle.	310	140	"	"	5	"	Cross small nulla.
	311	172	15	"	7	55	
	312	127	15	"	5	"	
	313	134	30	"	7	165	
	314	152	15	"	5	55	
	315	129	"	"	3	120	
	316	167	15	"	3	200	
	317	130	25	"	4	40	
	318	177	15	1	1	110	
	319	131	"	"	5	"	
It continues along a steep and precipitous ridge to 319. Whence descending, it falls into a small nulla and continues along it till uniting with the large one at 322.	320	154	"	"	3	190	Here join large nulla, the division of Tawa Naad and Paudy Naku Naad.
	321	128	55	"	3	55	
	322	108	56	"	2	55	
	323	189	25	"	3	55	
	324	228	30	"	6	75	
	325	186	15	"	7	165	
	326	60	45	"	2	"	
	327	"	"	"	1	100	
	328	36	30	"	4	100	
	329	72	45	"	3	"	
This stream is here joined by one of equal magnitude along which the line of separation ascends to 334, these 2 nullas are about 300 feet broad with steep banks and an excessively stony bed.	330	104	"	"	2	110	
	331	127	15	"	4	110	
	332	86	30	"	7	"	
	333	57	10	"	7	110	
	334	134	"	"	3	110	
	335	149	45	1	6	55	
	336	87	10	"	5	20	
	337	118	"	"	4	"	
	338	161	15	"	4	100	
	339	180	"	"	2	110	
Quitting this last point it ascends for a short distance up a small rivulet, quitting it, it reaches a high top whence it proceeds for a short distance along a high ridge, but leaving its descent passes over a minor one to 342.	340	101	30	"	4	15	
	341	131	30	"	3	55	
	342	209	45	"	3	40	
	343	158	30	"	2	100	
	344	205	"	"	2	"	

The last portion of boundary runs through a thick forest over steep ridges or elevated tops, it is only crossed in one place, and in that alone cannot be considered as at all passable.



DESCRIPTION.	Nos.	Angles.		Distance.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
From this last point it passes for a very short way along a small nulla but soon leaving it it ascends with steepness to 347.	345	175	45	"	4	70	
	346	137	10	"	7	55	
	347	115	"	"	4	165	
	348	201	10	"	4	55	
	349	130	30	"	4	55	
	350	104	15	"	3	200	
	351	68	30	"	2	55	
	352	171	45	"	5	20	
	353	144	"	"	3	60	
	354	236	45	"	3	120	
	355	129	30	"	4	200	
Quitting this it descends with equal rapidity, passes various small nullas and secondary ridges reaching, after a rugged and irregular course, the high top at 360.	356	106	58	"	3	"	
From whence it passes a long ridge to 362.	357	154	15	"	1	40	
	358	82	10	"	2	100	
	359	133	30	"	1	165	
	360	77	"	"	1	100	A high Top.
	361	149	50	"	4	165	
	362	159	"	"	3	165	
	363	87	30	"	4	"	
	364	109	"	"	6	"	
Whence it descends along the side of a small ridge to 366 ascending steeply to 367.	365	160	15	"	3	"	
	366	105	45	"	1	"	
	367	34	30	"	4	100	
	368	181	45	"	3	100	
	369	110	"	"	1	15	
	370	72	45	"	1	110	
Leaving this top it falls into a small rivulet, along which it passes to 373.	371	137	40	"	2	15	
When uniting with the Oodumbay holay it runs along its bed to 379, the nulla is about a 100 feet broad has a rapid stream of water and a very rocky bed.	372	70	"	"	1	130	
	373	109	50	"	1	130	Here join the Oodumbay holay division of Pandu Naku Naad and Kuddieth Naad.
	374	129	"	"	6	140	
	375	173	"	"	5	110	
	376	137	30	"	3	110	
	377	180	"	"	2	"	
	378	130	30	"	2	"	
Quitting the Oodumbay holay, the boundary passes a ridge to 381.	379	101	"	"	4	"	
	380	127	"	"	5	20	
	381	88	"	"	3	15	Division of Kuddieth Naad and Beyppoo Naad.
	382	142	30	"	5	60	
	383	74	"	"	1	165	
	384	39	5	"	4	"	
	385	64	15	"	4	165	
	386	99	30	"	2	70	
	387	125	"	"	1	160	
	388	171	"	"	5	10	
Crossing a small nulla it proceeds over various other ridges of irregular elevation till reaching the Kull holay at 392.	389	98	45	"	2	170	
	390	177	10	"	4	55	
	391	124	30	"	2	50	
	392	46	30	"	2	55	Meets the Kull holay

DESCRIPTION.	Nos.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
From thence it runs along its bed to 397 where it falls into the Burrapolay along whose stream it passes to 409. Both those Nullahs are remarkable for the steepness of their banks, and the ruggedness of their bottoms, their breadth is similar, and may be about 200 feet broad.	393	112	"	"	4	100	
	394	128	30	"	2	110	
	395	114	30	"	4	"	
	396	85	"	"	4	10	Meets the Burrapolay.
	397	134	30	"	2	"	
	398	74	"	"	3	"	
	399	109	"	"	3	110	
	400	61	10	"	2	"	Division of Bathaally and Bettlieth Naad.
	401	105	"	"	1	165	
	402	73	"	"	2	100	
	403	127	30	"	1	165	
	404	63	"	"	2	"	
	405	110	28	"	1	165	
	406	60	30	"	1	100	
	407	127	45	"	1	150	
	408	76	30	"	4	160	Division of Bettlieth and Murray Naad.
	409	117	30	"	2	165	
	401	174	30	"	4	55	
	411	188	"	"	6	60	
	412	162	40	"	4	"	
	413	180	"	"	4	"	
	441	183	45	"	2	110	
Quitting the Burrapolay the boundary passes over two exceedingly steep and elevated ridges reaching the summits of the ghaut at 418. It passes along them to 419.	415	158	30	"	2	10	
	416	116	30	"	5	150	
	417	156	10	"	2	27	
	418	193	"	"	7	70	
	419	133	"	"	1	120	
	420	151	30	"	3	70	
But descends them with rapidity joining a Nullah at their foot to 423.	421	163	"	"	3	"	
It passes along this stream to 425, this Nullah is small but rugged.	422	141	10	"	5	170	
Leaving it the line of division ascends a ridge and passes along it to 428 descending it passes a small Nullah at 429.	423	126	30	"	4	120	
	424	116	10	"	1	55	
	425	148	45	"	2	165	
	426	180	"	"	2	55	
	427	201	30	"	3	48	
	428	120	35	"	3	150	
	429	148	45	"	3	150	
	430	82	"	"	4	"	
Whence it ascends with steepness till to 434, and continues to do so till reaching the top of the ghauts at 440, where unite the three boundaries of Codugu, Malliallem, and Wynaad.	431	105	45	"	4	"	
	432	138	56	"	4	150	
	433	115	56	"	2	200	
	434	81	15	"	5	140	
	435	127	30	"	3	110	
	436	106	35	"	3	130	
	437	9	15	"	1	170	
Quitting the point where the 3 boundaries unite the line separating Codugu from	438	46	5	"	4	110	
	439	78	15	"	2	50	
	440	120	30	"	1	60	

The last portion of the boundary it will be seen, runs with but little exception along the foot of the western ghauts passing for the whole distance through a forest of uncommon density, and invariably over steep, and high ridges; it is scarcely necessary to remark that this portion of frontier is of great natural strength and easily defensible throughout the wall formed by this range of mountains presenting a barrier that can only be passed at the few points where the roads may traverse it.

DESCRIPTION.	Nos.	Angles.		Distances.			Objects.
		°	'	Miles.	Furlongs.	Yards.	
Wynaad passes immediately along the top of a steep ghaut, till reaching 448, this distance presents to the south a steep and precipitous wall, to the N. an elevated Table the highest top of which is the hill of Brumagerry.	441	100	15	"	7	110	Division of Murray and Tawullugayray Naad.
	442	112	58	"	6	70	
	443	87	"	"	2	150	
	444	105	30	"	4	55	
	445	85	15	"	2	165	
	446	123	"	"	5	120	
From the last point branches off a high and steep ridge of hills; along the summit of this range the boundary continues to pass; their elevations are very great to 456.	447	58	15	"	3	110	
	448	105	15	"	4	110	
	449	27	58	"	5	120	
	450	57	15	"	2	120	
	451	91	30	"	3	20	
	452	71	58	"	3	60	
From this the range gradually becomes lower, the boundary still continuing to pass along it till to 461, this latter portion runs through jungle, the previous part however of the Wynaad Boundary (that is from 441 to 456) runs over hills comparatively free from forest; from this point the boundary descends and again ascends to a top at 462; from this last point it gradually falls to 464 when passing a small Nullah, it proceeds over a low jungly slope joining the Kaydeegay Holay at 467 this being the point of division between the Mysore, Wynaad and Codugu countries.	453	111	"	"	2	150	
	454	139	30	"	2	100	
	455	90	30	"	1	4	
	456	37	45	"	2	60	
	457	52	"	"	2	150	
	458	38	30	"	5	70	
	459	88	10	"	1	55	
	460	58	15	"	1	70	
	461	48	15	1	3	40	
	462	75	15	"	5	110	
	463	101	45	"	4	165	
	464	53	30	"	6	"	
	465	29	30	"	3	165	Pass small Nullah.
	466	86	45	"	3	110	
	467	60	30	"	1	110	
							Moogooda X.

The whole of the Wynaad boundary may be said to pass along the crest of a high ridge of hills, and is consequently from this circumstance extremely strong, and is rendered still more so by the rugged nature of the country in its vicinity.

From the minute nature of the above description but little more need be said with regard to the boundary. Considered in a military light, it will be seen, that it is covered by Hills with little exception; about one third of its extent, that is, from the point where the Wynaad and Mysore boundaries unite till passing the village of Beendeaduker; from this gradually becoming weaker, it may be said to be quite open till meeting the Nitrawutti or Coomardarry; the whole extent of that river though presenting a good natural boundary, cannot from its confined breadth be considered in every place a very defensible one—leaving it hills again cover the line of demarkation till it meets the champaign district of Yail-sowra; from this the frontier is entirely open till the point where it joins the Cauvery—that river though a tolerably good barrier is still less so than the thick forest, which commencing from where the boundary quits its stream continues without interruption till to the Kaydeegay Holay; the point, as has just been observed, where the Hills may be said to commence.



**APPENDIX.**

**TO**

**PART I.**

## TRIANGLES

The Triangular operations of Colonel Lambton in connecting the two coasts of the Peninsula having been carried through Codugu, the subsequent series will necessarily be of minor consideration, such however became absolutely requisite as those above alluded to were of too great magnitude to admit of their being useful in taking up the geographical detail of the country. The accompanying Triangles will therefore be viewed as only filling up the primary ones which served as their basis, and for the purposes that have been stated, their amount has been limited to such a number as were found sufficient for facilitating the operation of the Topographical Survey. The great magnitude of the Primary Triangles rendered it difficult in some measure to determine, with that nice accuracy that could be desired, some of the intermediate ones, as the Telescope of the ordinary Theodolite, is not sufficiently powerful to cut with precision, objects at so considerable a distance; each side however has been separately determined from distinct data, and the general results were found in every instance of sufficient correctness, to answer in a satisfactory manner all the purposes for which they were intended.

TADIANDAMALE AND BETTADIPOOR—5·3015991

200262

1	Tadiandamale ...	31	36	"	5·2854876	192969
	Maullimby ...	77	57	"	5·0305950	107299
	Bettadipoor...	70	27	"		
SOOBRAMUHNI AND BETTADIPOOR—5·2323200						170734
2	Soobramuhni ...	26	37	"	4·8884062	77340
	Maullimby...	134	33	"	5·0307473	107336
	Bettadipoor...	18	50	"		
BETTADIPOOR AND TADIANDAMALE—5·3015991						200262
3	Bettadipoor...	39	8	"	5·1211203	132166
	Cotay Betta...	100	21	"	5·1088407	128482
	Tadiandamale ...	40	29	"		
TADIANDAMALE AND SOOBRAMUHNI—5·2141293						163730
4	Tadiandamale ...	14	19	29	5·109149	128543
	Cotay Betta...	126	35	"	4·7028565	50449
	Soobramuhni ...	39	5	31		
SOOBRAMUHNI AND BETTADIPOOR—5·2323200						170734
5	Soobramuhni ...	34	26	"	4·7040011	50582·6
	Cotay Betta ...	133	4	"	5·1210869	1321·56
	Bettadipoor...	12	30	"		
COTAY BETTA AND BETTADIPOOR—5·1210869						1321·56
6	Cotay Betta...	54	2	"	4·8380305	68870
	Maullimby...	94	40	"	5·0306701	107317
	Bettadipoor...	31	18	"		



## MAULLIMBY AND BETTADIPOOR—50306701

107317.

7	Maullimby...	49	10	"	48849508	76727
	Codergurrahully...	85	23	"	49109563	81462.2
	Bettadiipoor...	45	27	"		
COTAY BETTA AND BETTADIPOOR—51210869 132156						
8	Cotay Betta...	20	27	"	47543025	56794
	Codergurrahully...	145	27	"	49107182	81417
	Bettadiipoor...	14	6	"		
MAULLIMBY AND COTAY BETTA—48380305 68870						
9	Maullimby...	39	51	"	48876237	77201.1
	Soobramuhni	61	8	"	47024615	50403
	Cotay Betta...	79	1	"		
BETTADIPOOR AND SOOBAMUHNI—52323200 170734						
10	Bettadiipoor...	26	36	"	49087025	81040.6
	Codergurrahully...	133	8	"	50201789	104756
	Soobramuhni	20	16	"		
MAULLIMBY AND COTAY BETTA—48384902 68948						
11	Maullimby...	45	32	"	48844758	76643
	Codergurrahully...	60	3	"	47543040	56794
	Cotay Betta...	74	25	"		
CODERGURRAHULLY AND MAULLIMBY—48849508 76727.						
12	Codergurrahully...	60	3	"	48389652	69018.6
	Cotay Betta	74	25	"	47547062	56484.8
	Maullimby...	45	32	"		

## CODERGURRAHULLY AND MAULLIMBY—48849508

767274

13	Codergurrahully...	47	45	"	50203572	104799
	Soobramuhni	46	52	"	48911277	77826.5
	Maullimby...	85	23	"		
MAULLIMBY AND BETTADIPOOR—50305350 107298						
14	Maullimby...	112	39	"	46649827	46236.2
	Hurrugul	43	31	"	51211697	132181
	Bettadiipoor...	13	50	"		
BETTADIPOOR AND COTAY BETTA—51210869 132153						
15	Bettadiipoor...	12	29	"	51211559	132177
	Hurrugul	83	43	"	44534101	28734
	Cotay Betta...	83	43	"		
CODERGURRAHULLY AND MAULLIMBY—48849508 76727.4						
16	Codergurrahully...	36	44	"	48436203	69762
	Hurrugul	79	47	"	46685597	46618.6
	Maullimby...	63	29	"		
BETTADIPOOR AND HURRUGUL—51211637 132181						
17	Bettadiipoor...	26	37	"	49084888	81000.6
	Codergurrahully...	122	7	"	48445997	69199
	Hurrugul	31	16	"		
MAULLIMBY AND COTAY BETTA—48380305 68885						
18	Maullimby...	17	57	"	46655622	46298
	Hurrugul	132	14	"	44578214	28696
	Cotay Betta	29	49	"		

## COTAY BETTA AND MAULLIMBY—48384902

68943

19	Cotay Betta ...	44	15	"	4-6360564	43257
	Koondhully...	97	15	"	4-6861535	48546
	Maullimby...	38	30	"		
KOONDHULLY AND COTAY BETTA—4-6360564						43257
20	Koondhully...	63	9	"	4-4-05531	30238
	Kalkundoor...	70	36	"	4-6290623	42566
	Cotay Betta...	41	15	"		
BETTADIPOOR AND COTAY BETTA—5-1210363						132153
21	Bettadipoor...	18	2	"	5-0599203	114796
	Kalkundoor...	104	56	"	4-6269252	42357
	Cotay Betta...	57	2	"		
MAULLIMBY AND KOONDHULLY—4-6861335						48546
22	Maullimby...	53	50	"	4-4227375	26469
	Kalkundoor...	117	8	"	4-4315859	30310
	Koondhully...	29	2	"		
MAULLIMBY AND BETTADIPOOR—5-0305950						107299
23	Maullimby...	99	21	"	4-4290252	26855
	Kalkundoor...	67	18	"	5-0598019	114763
	Bettadipoor...	13	21	"		
COTAY BETTA AND MAULLIMBY—4-8384902						68943
24	Cotay Betta...	29	49	"	4-4578300	28696.5
	Hurrugul ...	132	14	"	4-6655622	46298
	Maullimby...	17	57	"		

## KOONDHULLY AND MAULLIMBY—4-6861535

48546

25	Koondhully ...	72	15	"	4-2320045	17061
	Hurrugul...	87	12	"	4-6654372	43290
	Maullimby...	20	33	"		
BETTADIPOOR AND MAULLIMBY—5-0305950						107299
26	Bettadipoor ...	18	50	"	5-1201690	132182
	Hurrugul...	48	31	"	4-6649827	46236.2
	Maullimby...	112	39	"		
MAULLIMBY AND BETTADIPOOR—5-0305950						107223
27	Maullimby...	133	14	"	4-6847107	43385
	Koondhully ...	32	42	"	5-1674824	147050
	Bettadipoor ...	14	4	"		
MAULLIMBY AND BETTADIPOOR—5-0306683						107317
28	Maullimby...	61	41	"	5-0394955	109520
	Noorkull ...	58	11	"	5-0460306	111181
	Bettadipoor ...	60	8	"		
KALKUNDOOR AND BETTADIPOOR—5-0593624						114779
29	Kalkundoor ...	64	29	"	4-9530322	89759.9
	Noorkull ...	68	44	"	5-0459173	111152
	Bettadipoor ...	46	47	"		
HURRUGUL AND BETTADIPOOR—5-1211559						132177
30	Hurrugul ...	56	26	"	4-9446688	88037.7
	Noorkull ...	82	16	"	5-0458955	111146
	Bettadipoor...	41	18	"		



## COTAY BETTA AND BETTADIPOOR—5-1211203

132166

31	Cotay Betta ...	53	53	"	4-8060782	63985
	Noorkull ...	94	9	"	5-0457698	111114
	Bettadipoor ...	23	52	"		
COTAY BETTA AND TADIANDAMALE -5-1088407 128482						
32	Cotay Betta ...	43	20	"	4-8058745	63955
	Noorkull ...	108	31	"	4-9687117	93049
	Tadiandamale ...	28	9	"		
TADIANDAMALE AND SOOBRAMUHNI—5-2141293 163730						
33	Tadiandamale ...	22	16	30	4-9293028	85036
	Muddukayray } Tree...	136	58	"	4-9587741	90944
	Soobramuhni ...	20	45	30		
SOOBRAMUHNI AND COTAY BETTA—4-7023616 50392						
34	Soobramuhni ...	18	17	"	4-9584396	90874
	Muddukayray } Tree...	20	11	"	4-6610478	45819-2
	Cotay Betta ...	141	32	"		
COTAY BETTA AND TADIANDAMALE—5-1091497 128543						
35	Cotay Betta ...	41	53	"	4-6611101	45825-8
	Muddukayray } Tree...	157	10	"	4-9297356	85062
	Tadiandamale ...	7	57	"		
COTAY BETTA AND NOORKULL—4-8058763 639553						
36	Cotay Betta ...	28	28	"	4-6651961	46259
	Muddukayray } Tree...	108	6	"	4-5063833	32091
	Noorkull ...	43	26	"		

## SOOBRAMUHNI AND BETTADIPOOR—5-2323200

37	Soobramuhni ...	40	00	10	5-0568603	113968
	Noorkull ...	98	42	"	5-0454136	111023
	Bettadipoor ...	41	17	50		
TADIANDAMALE AND MUDDUKAYRAY TREE—4-9296692 85049						
38	Tadiandamale ...	20	3	20	4-9701672	93361-3
	Noorkull ...	65	12	40	4-5069513	32133
	Muddukayray } Tree...	94	44	"		
KOONDHULLY AND MAULLIMBY—4-6861535 48546						
39	Koondhully ...	129	30	"	4-4668973	29302
	Soorlaby Peak ...	31	54	"	4-8505593	70885
	Maullimby ...	18	86	"		
MULLIMBY AND BETTADIPOOR—5-0305450 107286						
40	Maullimby ...	114	36	"	4-8503276	70848
	Soorlaby Peak ...	40	11	"	5-1795035	151183
	Bettadipoor ...	25	13	"		
KOONDHULLY AND BETTADIPOOR—5-1516117 145040						
41	Koondhully ...	96	48	"	4-4668528	29299
	Soorlaby Peak ...	72	7	"	5-1700532	147929
	Bettadipoor ...	11	5	"		
KOONDHULLY AND KALKUNDOOR—4-4810698 30274						
42	Koondhully ...	100	21	"	4-4660665	29246
	Soorlaby Peak ...	40	39	"	4-6600730	45716-8
	Kalkundoor ...	39	"	"		

## MAULLIMBY AND BETTADIPOOR—5·0306686

107317

43	Maullimby...	84	58	"	5·2602071	182057
	Payroor ...	31	46	"	5·3076242	203060
	Bettadipoor ...	63	16	"		
COTAY BETTA AND BETTADIPOOR—5·1212473 132204						
44	Cotay Betta ...	110	30	"	5·0598090	114764
	Payroor ...	37	33	"	5·3078943	203176
	Bettadipoor ...	31	57	"		
SOOBRAMUHNI AND TADIANDAMALE—5·2141293						
45	Soobramuhni ...	33	29	31	5·0566958	113945
	Noorkull ...	104	02	"	4·9690855	93129·1
	Tadiandamale ...	42	28	29		
COTAY BETTA AND TADIANDAMALE—5·1089437 128512						
46	Cotay Betta...	71	11	"	5·0341828	108188
	Seedasweer...	61	15	"	5·1422255	138748
	Tadiandamale ...	47	34	"		
MAULLIMBY AND TADIANDAMALE—5·2854876 192969						
47	Maullimby...	45	42	"	5·0836039	121228
	Seedasweer ...	95	36	"	5·1422919	138769
	Tadiandamale ...	38	42	"		
COTAY BETTA AND TADIANDAMALE—5·1083437 128334						
48	Cotay Betta...	33	6	"	4·9571933	90613·
	Tha'oor ...	103	39	"	4·8586604	72221·5
	Tadiandamale ...	43	15	"		

## SOOBRAMUHNI AND TADIANDAMALE—5·2141293

163730

49	Soobramuhni ...	19	10	"	5·0266869	106338
	Tha'oor ...	131	57	"	4·8590085	72278·5
	Tadiandamale ...	28	53	"		
TADIANDAMALE AND SEEDASWEER—5·1422919 138768						
50	Tadiandamale ...	90	49	"	4·8586214	72214
	Tha'oor ...	65	52	"	5·1891103	154564
	Seedasweer...	27	19	"		
BETTADIPOOR AND NOORKULL—5·0464717 111294						
51	Bettadipoor ...	25	37	"	4·8122514	64901
	Seedasweer...	126	23	"	4·7764687	59768
	Noorkull...	28	"	"		
MAULLIMBY AND NOORKULL—5·0397234 109578						
52	Maullimby...	29	23	"	5·0835811	121221
	Seedasweer...	64	25	"	4·7753046	59608
	Noorkull...	86	12	"		
CODERGURRAHULLY AND BETTADIPOOR—4·9108324 81439						
53	Codergurrahully...	52	46	"	4·7226833	52806
	Seedasweer...	86	53	"	4·8124855	64936
	Bettadipoor...	40	21	"		
MAULLIMBY AND CODERGURRAHULLY—4·8849508 767273						
54	Maullimby...	16	52	"	5·0837788	121277
	Seedasweer...	24	57	"	4·7224282	52775
	Codergurrahully...	138	11	"		



## BETTADIPOOR AND COTAY BETTA—5·1211203

132166

55	Bettadipoor ...	54	27	"	4·8129334	65003
	Seedasweer...	96	17	"	5·0331525	107932
	Cotay Betta...	29	16	"		
MAULLIMBY AND BETTADIPOOR—5·0305950 107298						
56	Maullimby...	32	17	"	5·0837519	121269
	Seedasweer...	61	56	"	4·8125571	649467
	Bettadipoor...	85	47	"		
SEEDASWEER AND TADIANDMALE—5·1422919 138768						
57	Seedasweer...	28	26	"	5·1430600	139015
	Baingoer ...	75	35	"	4·8339181	68221
	Tadiandamale ...	75	59	"		
TADIANDAMALE AND NOORKULL—4·9687677 93061						
58	Tadiandamale ...	56	32	"	4·8334659	68150
	Baingoer ...	77	46	"	4·9000167	79435·9
	Noorkull ...	45	42	"		
BETTADIPOOR AND TADIANDAMALE—5·3015991 200262						
59	Bettadipoor ...	19	53	"	5·2716031	186897
	Baingoer ...	91	12	"	4·8333065	68125
	Tadiandamale ...	58	55	"		
COTAY BETTA AND BETTADIPOOR—5·1211203 132166						
60	Cotay Betta ...	122	48	"	5·0446965	110840
	Sayrungaual ...	31	21	"	5·3294681	213534
	Bettadipoor...	25	51	"		

## COTAY BETTA AND CODERGURRAHULLY—4·7544859

56818

61	Cotay Betta...	102	21	"	5·0443099	110869
	Sayrungaual ...	24	17	"	5·1302128	134962
	Codergurrahully...	53	22	"		
SOOBAMUHNI AND THA'OR—5·0266869 106337						
62	Soobramuhni ...	12	11	"	4·7391813	54850
	Moodapaudee ...	155	26	"	4·7322185	53978
	Tha'oor...	12	23	"		
SOOBAMUHNI AND COTAY BETTA—4·7026545 50426·0						
63	Soobramuhni ...	70	26	"	4·7389214	54817
	Moodapaudee ...	51	24	"	4·783881·4	60799
	Cotay Betta...	58	10	"		
THA'OR AND COTAY BETTA—4·9571933 90613·6						
64	Tha'oor ...	40	41	"	4·7322884	53987
	Moodapaudee ...	104	"	"	4·7844554	60877
	Cotay Betta ...	35	19	"		
COTAY BETTA AND THA'OR—4·9571933 90613·6						
65	Cotay Betta...	16	10	"	5·1776446	150537
	Purruthuddy...	21	40	"	4·8346441	68335
	Tha'oor ...	142	10	"		
THA'OR AND MOODAPAUDY—4·7322185 539782						
66	Tha'oor ...	101	50	"	4·8340882	68247
	Purruthuddy ...	33	40	"	4·9790974	95301
	Moodapaudy ...	44	30	"		

## COTAY BETTA AND SOOBRAMUHNI—47026545

50426

67	Cotay Betta ...	43	2	"	5-0390408	109406
	Chokaudee...	25	22	30	4-9047163	80300
	Soobramuhni ...	111	35	30		
THA'OR AND SOOBRAMUHNI—5-0266869						106337
68	Tha'oor ...	47	48	"	4-9395358	87003-3
	Chokaudee...	78	49	"	4-9047165	80300
	Soobramuhni ...	53	23	"		
TADIANDAMALE AND SOOBRAMUHNI—5-2141293						163730
69	Tadiandamale ...	28	45	"	5-2021697	159283
	Chokaudee...	78	42	"	4-9047658	80309
	Soobramuhni ...	72	33	"		
MOODAPAUDEE AND THA'OR—4-7322185						53978-2
70	Moodapaudee ...	108	35	"	4-7258167	53188
	Chokaudee...	36	"	"	4-9397445	87045
	Tha'oor ...	35	25	"		
THA'OR AND PURRUTHUDDY—4-8343635						68291
71	Tha'oor ...	66	25	"	4-9393087	86958
	Chokaudee...	46	23	"	4-9367648	86449-9
	Parruthuddy ...	67	12	"		
COTAY BETTA AND THA'OR—4-9571933						90613-6
72	Cotay Betta ...	50	27	"	5-0393877	109493
	Chokaudee...	53	27	"	4-9393887	86973
	Tha'oor...	76	6	"		

## THA'OR AND CHOKAUDEE—4-9394943

86995

73	Tha'oor...	66	25	"	4-8345491	68320-2
	Purruthuddy ...	67	12	"	4-9369504	86687-1
	Chokaudee...	46	23	"		
CHOKAUDEE AND MOODAPAUDEE—4-7257694						53182-5
74	Chokaudee ...	82	24	"	4-9381612	86728
	Purruthuddy ...	33	29	"	4-9802389	95551
	Moodapaudee ...	64	7	"		
SOOBRAMUHNI AND CHOKAUDEE—4-9047163						803001
75	Soobramuhni ...	28	36	"	5-1705757	148107
	Purruthuddy ...	26	21	"	4-9375328	86603
	Chokaudee...	125	3	"		
SOOBRAMUHNI AND CHOKAUDEE—4-9047163						80300-1
76	Soobramuhni ...	41	12	"	4-7393770	54875-3
	Moodapaudee ...	95	59	"	4-7257694	53182
	Chokaudee...	42	49	"		
THA'OR AND CHOKAUDEE—4-9394793						86992
77	Tha'oor...	36	36	"	4-5991430	89732-2
	Payrahjee ...	120	8	"	4-7779438	59971-3
	Chokaudee...	23	16	"		
THA'OR AND MOODAPAUDEE—4-7322884						53986-9
78	Tha'oor ...	72	1	"	4-5986969	39691
	Payrahjee ...	65	51	"	4-7503136	56274-7
	Moodapaudee ...	42	8	"		



## CHOKAUDEE AND MOODAPAUDEE—4·7257694

53182·5

79	Chokaudee...	59	16	30	4·7786837	60073·6
	Payrahjee ...	54	15	30	4·7507071	56305·7
	Moodapaudee ...	66	28	„		
KUNDUDDUKUMALE AND GOOMPAY—5·1008735						
80	Kunduddukumale.	48	46	„	4·9816382	95860·4
	Maddhow...	82	22	„	4·9809750	95713·1
	Goompay...	48	52	„		
BELLANAAD AND KUNDUDDUKUMALE—5·1252515						
81	Bellanaad ...	39	20	39	4·7630066	57957·1
	Maddhow...	118	8	„	4·9819291	95924·4
	Kunduddukumale.	22	31	21		
GOOMPAY AND BELLANAAD—4·7734631						
82	Goompay...	34	53	„	4·9812614	95777·
	Maddhow...	35	46	„	4·7640148	58078·
	Bellanaad...	109	21	„		
CHOKAUDEE AND PAYRAHJEE—4·7783105						
83	Chokaudee...	90	51	„	4·7997317	63056·8
	Maddhow...	43	11	„	4·9429939	87698·8
	Payrahjee...	45	58	„		
THA'OR AND CHOKAUDEE—4·9394793						
84	Tha'oor...	27	3	33	5·1026393	126660·
	Maddhow ...	38	48	27	4·8003458	63146·
	Chokaudee...	114	8	„		

## MADDHOW AND BELLANAAD—4·7635553

58017

85	Maddhow...	145	„	„	4·7995532	63031·6
	Chokaudee ...	16	45	6	5·0624163	115546·
	Bellanaad ...	18	14	54		
BELLANAAD AND KUNDUDDUKUMALE—5·1252515						
86	Bellanaad ...	57	34	„	5·0630692	11·5629
	Chokaudee...	68	37	43	5·0825416	120932
	Kunduddukumale.	53	48	17		
BULLAMALE AND GOOMPAY—4·7402837						
87	Bullamale ...	76	3	1	4·9670277	92689
	Maddhow...	35	53	45	4·9808917	95695
	Goompay ...	70	3	14		
GOOMPAY AND BULLAMALE—4·7402853						
88	Goompay...	61	16	„	5·0926700	123785
	Kulbetta...	26	21	„	5·0359793	108637
	Bullamale...	92	23	„		
GOOMPAY AND MADDHOW—4·9811161						
89	Goompay...	8	47	„	5·0927089	123796
	Kulbetta ...	26	37	„	4·5136539	32632·8
	Maddhow...	144	36	„		
BELLANAAD AND GOOMPAY—4·7734631						
90	Bellanaad ...	133	34	„	4·8765232	75253
	Kulbetta ...	20	19	„	5·0929549	123866
	Goompay ...	26	7	„		

## MADDHOW AND BELLANAAD—4763553

58017

91	Maddhow...	108	50	"	45135623	32625.1
	Kulbetta ...	46	55	"	48761107	75181.4
	Bellanaad...	24	15	"		
BELLANAAD AND GOOMPAY—47734631 59355.8						
92	Bellanaad ...	76	35	"	46708053	46860
	Niddoopoolly ...	60	11	"	48231158	66545
	Goompay ...	43	14	"		
BULLAMALE AND GOOMPAY—47402853 549902						
93	Bullamale...	57	26	42	48980519	79077.3
	Niddoopoolly ...	44	11	4	48228343	66502
	Goompay ...	78	22	14		
MADDHOW AND PAYRAHJEE—49429939 87698.8						
94	Maddhow ...	66	48	"	46787378	47724.1
	Uddoor ...	80	43	"	59120991	81676.9
	Payrahjee ...	32	29	"		
MADDHOW AND KULBETTA—45135905 32628						
95	Maddhow...	146	7	"	46769896	47532.4
	Uddoor ...	13	42	"	48853865	75804.5
	Kulbetta ...	20	11	"		
PURUTHNDY AND MADDHOW—49329855 85698.9						
96	Purruthuddy ...	31	52	"	47657830	58315.3
	Uddoor ...	107	44	"	46767157	47502.4
	Maddhow...	40	24	"		

## MADDHOW AND UDDOOR—46768490

47517

97	Maddhow ...	51	29	"	44991505	31561
	Niddoopoolly ...	86	58	"	45709018	37230.7
	Uddoor ...	41	53	"		
MADDHOW AND BELLANAAD—47635553 58017						
98	Maddhow...	53	34	"	44976301	31450.7
	Niddoopoolly ...	93	41	"	46700055	46774.1
	Bellanaad...	32	46	"		
MADDHOW AND KUNDUDDUKUMALE—49817824 95892						
99	Maddhow ...	27	29	"	49329855	85702.9
	Purruthuddy ...	89	11	"	41459893	44257.7
	Kunduddukumale.	63	20	"		
THA'OR AND SEEDASWEER—51967839 157320						
100	Tha'oor...	27	05	"	51345731	136324
	Veerajenderpett } Tree... }	105	35	"	48222741	76256
	Seedasweer ...	56	35	"		
NOORKULL AND SEEDASWEER—47758506 59683						
101	Noorkull...	79	"	"	47798080	60229
	Veerajenderpett } Tree... }	50	11	"	48823810	76274
	Seedasweer ...	50	49	"		
BETTADIPOOR AND TADIANDAMALE—53015991 200262						
102	Bettadipoor...	51	45	"	52883583	194249
	Brummagerray...	65	55	30	52361675	172253
	Tadiandamale ...	62	19	80		



## NOORKULL AND BETTADIPOOR—5·0459446

111159

103	Noorkull...	83	17	45	5·2375709	17281·0
	Brummagerray ...	34	38	"	5·2883698	194254
	Bettadipoor ...	62	4	15		
TADIANDAMALE AND NOORKULL—4·9687117						93049
104	Tadiandamale ...	74	42	"	5·2361958	172264
	Brummagerray ...	31	17	"	5·2376461	172840
	Noorkull ...	74	1	"		
BETTADIPOOR AND BRUMMAGERRAY—5·2883677						194253
105	Bettadipoor...	20	37	"	5·2671675	184998
	Beerunnauny ...	87	20	"	4·8355214	68473·3
	Brummagerray ...	72	3	"		
BETTADIPOOR AND NOORKULL—5·0459446						111159
106	Bettadipoor...	41	27	15	5·2672523	185034
	Beerunnauny ...	35	53	"	5·0988172	125550
	Noorkull ...	102	39	45		
BETTADIPOOR AND BRUMMAGERRAY—5·2883677						194253
107	Bettadipoor ...	36	35	"	4·8128328	64987·9
	Seedasweer ...	128	10	"	5·1680654	147293·
	Brummagerray ...	15	15	"		
TADIANDAMALE AND SEEDASWEER—5·1422580						138758
108	Tadiandamale ...	55	14	"	5·2363140	172311
	Brummagerray ...	50	44	"	5·1679970	1472330
	Seedasweer...	74	2	"		

## SEEDASWEER AND BRUMMAGERRAY—5·1680288

147241

109	Seedasweer ...	27	34	20	5·0928478	123836·
	Beerunnauny ...	95	36	"	4·8355620	68479·7
	Brummagerray ...	56	49	"		
NOORKULL AND BEERUNNAUNY—5·0988172						125550
110	Noorkull ...	19	20	"	5·2373849	172737
	Brummagerray ...	37	27	"	4·8347756	68356
	Beerunnauny ...	123	13	"		
BRUMMAGERRAY AND BEERUNNAUNY—4·8352865						68436·3
111	Brummagerray ...	37	43	"	4·9532199	89788·1
	Moogootagayray...	47	35	"	4·7402814	54989·7
	Beerunnauny ...	92	42	"		
TADIANDAMALE AND BRUMMAGERRAY—5·2361516						172247
112	Tadiandamale ...	26	9	"	5·0281678	106700
	Moogootagayray...	122	15	30	4·9531163	89766·9
	Brummagerray ...	31	35	30		
VEERAJENDERPETT TREE AND SEEDASWEER—4·8823253						76265
113	Veerajenderpett } Tree... }	64	46	"	4·5690719	37074
	Moogootagayray...	86	13	"	4·8397194	69138·7
	Seedasweer...	29	1	"		
TADIANDAMALE AND SEEDASWEER—5·1422580						138758
114	Tadiandamale ...	29	4	30	5·0277195	106590
	Moogootagayray...	102	17	"	4·8339109	69009·9
	Seedasweer...	48	38	30		

## TADIANDAMALE AND BRUMMAGERRAY—5.2361516

172247

115	Tadiandamale ...	26	9	30	5.0271295	106443
	Moogootagayray...	122	23	"	4.9538543	89919.6
	Brummagerray ...	31	27	30		
NOORKULL AND SEEDASWEER—4.7758506						59683
116	Noorkull ...	54	59	"	4.9182554	82842.9
	Moogootagerray...	45	10	"	4.8383820	68925.8
	Seedasweer...	79	51	"		
TADIANDAMALE AND NOORKULL—4.9687117						93049
117	Tadiandamale ...	19	36	24	4.9281907	84760
	Muntapum...	95	30	16	4.4965467	31372.3
	Noorkull...	65	3	20		
BRUMMAGERRAY AND TADIANDAMALE—5.2361516						172247
118	Brummagerray ...	25	19	"	5.2958728	197639
	Muntapum...	60	21	48	4.9281015	84742.5
	Tadiandamale ...	94	12	12		

*Table shewing the Distances of the several points from the Meridian of Babroyn, Droog and its Perpendicular.*

Places Computed.	DISTANCES FROM BABROYN, DROOG ON THE	
	Meridian.	Perpendicular.
Tadiandamale, ...	331826 S	69272 E
Tha'oor, ...	263598 "	45494 "
Baingoor, ...	263868 "	64019 "
Sayrungaul, ...	290790 "	41215 "
Payroor, ...	309416 "	57214 "
Veerajenderpett Tree, ...	334899 "	140623 "
Moogoatagayray, ...	351573 "	176617 "
Beerunnauny, ...	400161 "	148225 "
Brummagerray, ...	435166 "	207079 "
Seedasweer, ...	288083 "	200827 "
Noorkull, ...	274801 "	142668 "
Muddukayray, ...	259672 "	114298 "
Codergurrahully, ...	246299 "	168607 "
Bettadipoor, ...	245732 "	250084 "
Maullimby, ...	169870 "	174191 "
Koondhully, ...	171343 "	125605 "
Hurrugul, ...	187495 "	131493 "
Kalkundoor, ...	185250 "	152443 "
Soorlaby Peak, ...	194570 "	107736 "
Cotay Betta, ...	214445 "	121588 "
Soobramuhni, ...	170437 "	96850 "
Moodapaudee, ...	211829 "	660813 "
Payrahjee, ...	240727 "	12753 "
Chokaudee, ...	181290 "	17274 "
Bullamale, ...	116722 "	116546 "
Bellanaad, ...	137096 "	98333 "
Goompay, ...	166502 "	139909 "
Niddoopoolly, ...	182034 "	75208 "
Maddhow, ...	175154 "	44537 "
Kulbetta, ...	158756 "	16208 "
Uddoor, ...	218061 "	65385 "
Kunduddu Rumale, ...	268603 "	65829 "
Purruthuddy, ...	258104 "	22766 "